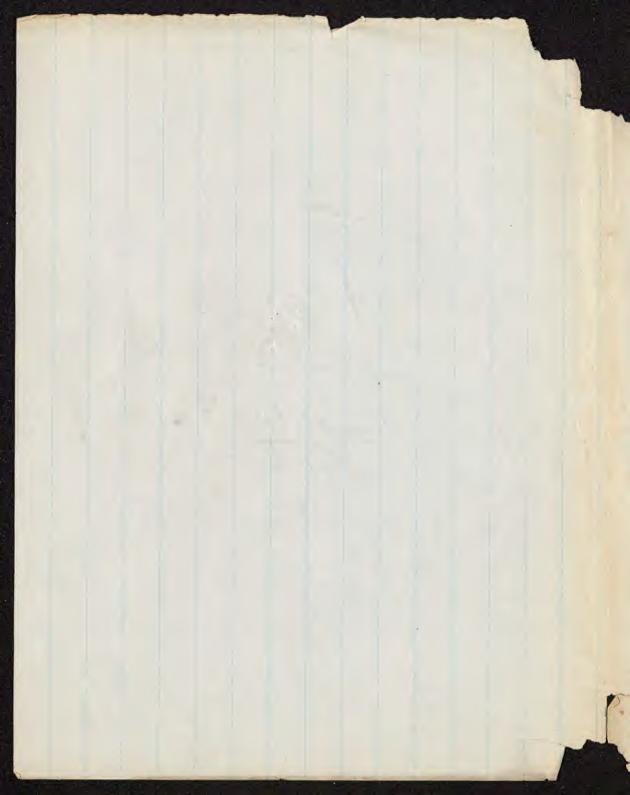


Food & Eenaal Principles of Dietetics Proximate Elements of



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2. Ata Mala ... 3 Telle Physican) 1ª la start. in Alex entation .) 12 5. At suppore Se 9 theten hat returning 7. Coloration, De Jal Direns fly g. crercise bes 10 Mental Thegrand Augustal My Rent Chyperson Chyperson FI . Myrin Sick R. 1 set of it is the set of the fight the set of the set levering the grow of the day we delation I a contrat of a signed a white the hearing applient incience. This dage the at Departy and [1871; hegen, after buf intriduction, with at a light: then of Vital Statistics; next, Public Hypere; on these subjects 10 lictures Alimentation .



DIVISIONS - Cecture 11.

HYGIENE. Hygiene is divided into personal and public, and between the two, and merging into each, is domestic. There might be a question as to which

giene first; but sanitary experience and phys-

iology both point to private hygiene as the

starting place. Personal hygiene has the following

1.

PERSONAL en we should not begin to treat of public hy-HYGIENE.

FUNCTIONAL 1. Functional Divisions: DIVISIONS, Alimitation, Muscular Action, Respiration, Excretion, Herat and fight, Reproduction

Brat and Light, Reproduction, Circulation, Ceretro-neumis Action. SUBJECTS. 2 General Subjects: SUBJECTS. Hital Statistics.

functional divisions viz:

Aimentation

Howenal hygiene is founded directly on physical directly on physical interest of the

1st Manner of Caling, 2m Times of Meals

31 Quantity of Food And Nature and quality.

oughly masticate our food is as to get it

mined with the saliva. Dovad to allow the

MANNER to the manner of eating, we should ther-* EATING.

* Starch, in the opinion of all physicity almost apply or Valton, is directed party by the Salina. Infants, therefore, should never be made to live on exclusively or prinipally farmaceous food before they have then chenny teeth; - the secretion of the Salwary glands Scarcely Leging, also, before the main articles are coming through the greas. Enerally section of the Salivory glands hefore the and of 3 months. The same the Nor when the B. Mannes - addite

3. of this with har for reduction, meat the most digestive action of the saliva. Vegetable food requires the most chaving! Not chaving our food well injures the teeth. A destat convent-INJURY ion which met some years ago, declared the TEETH. main cause of the early decay of teeth in America, to be haste in chewing so that fibres were left DYSPEPSIA. in the teelth.) Haste often causes, dependicia; encess sometimes causes it too; but the former is generally the cause in America. Those who have no teeth, should take only liquid or soft food. Infants too young to have let are provided with milk, suited to Their condition. So those who are old and without teeth studying should take such food. During meals, the MEALS, mind should be free from care. Hence, it is a mistake to attempt to study at dinner. Social enjoyment should be indulged. The brain, muscles and every other partof the body require nervous force. When any part is used much it drawe this force from all the other parts. Hence if we study while we are eating, this force EATIN G AFTER will be diverted from the stomach. For This EXERCISE reason we should not eat after violent

A Horses have small stomaches, have made p Hamments " experiments on bogs. 1/1/2 K Sr. Lethety on the claborate menu port of of Finne at american Holds -10 hours for disposal of 5 meals! Juna 1 / 21 . 8 660 matter of La Mar 16-6-769

A prior and a second se 1 10-5. Easa lo. g in king. liect in the pilof this enercise. Or AND FITTINGS FOR SAME. of Suez, awale grims month R made tr HORSES. SEWING MACHINES. to the on t an If be 21 BethUINGER'S FAMILY SEWING MACHINES Sent out ON TRIAL. ON TRIAL. ON TRIAL. mom It also retur ited. montipomplets instructions given without charge. Control of the second structure of the second ited. SM SM TH Fortan the P stanch Office, 1318 North Second street. 9t* settled: LF IRST-CLASS SEWING MACHINES to find LL FIRST-CLASS SEWING MACHINES to find a Store and State and State and State and State index 6 Store and State and State and State and State and and Machines. Sold Storesh. balance in easy and on thy payments, to suit purchasers. All kinds for the index of Storest and Storesh. State and REST AFTER Dia MEALS. OF FU all THE NEW ELLIPTIC SEWING MACHINE sold on easy monthly instalments, machines ex-hanged and repaired, 920 Arch street. tus" WANTED-A SEWING MACHINE, Address Mrs. Friend, Camden P. O. CHEAP. *157 P m 223 CHESNUT ST. THE DAVIS VERTI-ally learned and managed, greater range of work han any other sewing machine and all without brat-ug, Call and see it. 21 he l'ar COAL AND WOOD. TIME AND 121 noull ONEYBROOK COMPANY'S HARD LEHIGH COAL. Consumers supplied at Retail Depot. No. 907 North Font street, first yard bolow Laurel street. W. B. KINSEY. NUMBER OF MEALS. Damen an WIDDLETON & BROTHER'S FAMILY COAL Yard, 1140 Washington avenue. Please give us (trial. 3t*275 17 IRST-CLASS COAL ONLY.-STOVE, \$6 75 1 Nut, \$575. TAYLOR'S, 409 N. Twentieth. 3" 1 Nut, \$575. TAYLOID, 4574. Weintern U KOH-I-NOOR. --THE KING OF THE Lehighs. A full supply on hand, Egg, Stove, The and Small Stove Sizes, \$750: Large Kut, 650 per ton of 2240 Use. A trial will convince of the uperiority of this Coal over all others. ELLIS pIRANSON. N. W. corner Eighth and Willow sts. Bifice open day and nic bt. PARIS Six ealer ENGLAND (12 F office open day and night. THE MONITOR AND EAGLE VEIN Coals stand unexcelled ; also genuino hard Lehigh at FERNBERG'S Depot, 421 N. Eighteenth treet. 4t* MORTGAGES. BANKING HOUSE OF HARRISSON GRAMBO, 530 WALNUT STREET. CAPITAL ALWAYS ON HAND FOR INVEST. MENT IN MORTGAGES, AND TO LOAN ON REAL ESTATE COLLATERAL. Jr. wt \$65,000 FOR FIRST MORTGAGES ON perties. Owners will address "Trustee," Post-office perties. Box 2516. 20,000 TO LOAN ON MORTGAGE IN PDER, Fifth and Green streets. W. FRED'K SNY-21* \$ 10,000 TO LOAN ON FIRST MORT-gages. WM. A. FOREMAN, 2225 11* 11 ripes 11° \$10,000, \$3000. TO LOAN ON MORT-ERY, 1033 Beach street. Frankford road \$5000 AND \$3000. AT 20 PER CENT. off. First Mortgages, having five and a half years to run. Apply to J. SELBY, Newark, N. J. an \$4000, \$3000, \$2000 TO INVEST UPON Mortgage. EUGENE B. FITLER, Conveyancer, No. 51 North Sixth street. It* ENGLISH dance SUPPER. \$3600, \$2500, TRUST FUNDS AT PAR for mortgage. J. H. MORRIS, 213 N. PAR Tenth street. \$3000 OR \$2500, 1N PHILADA. OR NEW Jersey, to invest in Mortgages. Give Box 2357 Philada. Post-office. It

Horses

Education the Third's time (1327-1377) the dinner hour was nine in the morning. A century later, in Edward the Fourth's time (1461-1483), the general hour of breakfast with the nobility. whose meals were considerably earlier than those of tradesmen; yeomen and others, was seven; dinner was served at ten in the morning, and it generally lasted three hours; supper followed at four, and there was a collation at nine, before retiring. This collation consisted of beer and warm spiced wine. During the reigns of Edward VI, Mary and Elizabeth (1547-1603), the hours became later. The nobility, gentry and students dined at eleven in the forenoon, and supped between five and six in the afternoon; but the merchants, especially those of London, did not dine before twelve, and they supped at six; the farmers dined at noon and supped at seven or eight. Towards the close of Elizabeth's reign (1600) the din-net hour was changed from eleven to. Iwelve, and this remained the hour until the time of William III (1688-1702).

The entire change in the habits of the people of England which took place after REALL the restoration of Charles II (1660) contributed to increase the lateness of the hours for everything. It became fashionable among people of rank and fortune to have breakfast in bed and to hold receptions by the bedside. The ancient habit of all the members of the household taking their meals together was abrogated. Domestic followers and 'retainers came to be looked upon as "servants," and were treated as strangers to the family. .They were limited to certain hours for their meals, and these hours were not allowed to interfere with those of their masters. Hence, it became uccessary to prepare two sets of meals in every household where there were servants-one for the latter and one for the family. This lies at the root of the modern late hours. As the apartments occupied during the day by the family must be cleaned and put in order so as to be fit to receive them when they rise in the morning, the family refrained from rising until the domestics had time to do this, Another cause of late hours has been the vastly improved lighting up of the interior of houses, Even the old wax and tallow candles were a great improvement on what went before; then came the Argand lamp and other brilllant lamps, chandellers, and, lastly, gas. which have entirely obviated the inconvenience which our ancestors suffered from darkness. The pressure of business in large cities is another cause. This is so severe now-a-days in large cities that men engaged n professional and mercantile pursuits annot spare time to do more than take unch in the middle of the day, so they postpone their dinner until the close of their day's work. But still another, and, perhaps, a more potent cause than all for late dinners, is the suburban railway. In very large cities men of business are no longer, as formerly, compelled to reside near their stores proffices; they can now, by means of railways or horse-cars, be conveyed from suburban residences to their places of business in less time than it took their fathers to walk from their town houses; hence they have more time to devote to business if need be, and they retire when it is over to their families at a later hour.

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Protestants, they may worship in their own homes and nov public churches. Happily, the redoubtable Don is a long way from Madrid, with no prospect of getting there as king.

A pilgrimage to Jerusalem is the latest project in this line. The Bishop of Paris is organizing it, and the pilgrims were to leave Marseilles about, the middle of this month for Alexandria, and thence, via the Isthmus of Suez, to the Holy City. From there, excursions are to be made to Bethlehem, Jericho, Jordan, the Dead Sea, etc., and on t* return, Smyrna, Athens, Sicily, and other points will beited. The duration of the whole will be not far from f months and a half.

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Considerable importance is attached to the fact the? the Pope's delegate in Peru-Vanutelli-has left Lime an settled at Quito, the chief town of Ecuador, where he hope to find a more congenial soil for his Ultramontanist labor. Celefy of Friday next, overthrow of President Balta and the acces

In the case of small boals, ranging from three to eight tons burtden, cruising as plea-sure boats on the waters of Lake Erie, and which are saling without papers of any kind. which are salling without papers of any kind, the Secretary of the Treasury has decided that these vessels are not yachts in the eyes of the haw, as they cannot be enrolled and licensed, hor are they entitled to the privileges of yachts, though used as pleasure boats, and the Collector is instructed to issue to them the proper documents for vessels of their tonnage enough in the consting trade. ale mengaged in the coasting trade.

In the case of a steamboat altered into a barge, and where the owner, applied for papers and desired to change her mane, the Secretary decided that the vessel was entitled to such papers as are granted to other vessels of her class and character, but Congress alone by special legislation could authorize a change of her name.

WASHINGTON, Aug. 4. THE PRESIDENT'S RETURN. Information has been received that the Prethis week.

NORTH CAROLINA REPORTS.

Lu Tivate telegrams continue to be received m North Carolina. Those from Democratic to the theorem by a man burces still claim the State, though by a majority reduced from former calculations. The necrtainty which revails in the public mind prompts frequent inquiry at the several sources of information for the latest intelligence.

ENGLISH SUPPER.

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TIME AND NUMBER OF MEALS.

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PARIS

ENGLAND day

the Third's time (1327-1377) the dinner hour was nine in the morning. A century later, in Edward the Fourth's time (1461-1483), the

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into the region of the evening; and the meal becomes if the physico-intellectual, instead of animal. In Henry the in the Seventh's reign the court dined at eleven, A. M. In *Unree* Crorrwell's time at one, P. M. In Addison's day fashionable people dined at two, F. M., and Pope in A.D., and and says, "if such doings continue he must absent himionable from Marble Hall." Forty years later of such a century and it had advanced to five. Thus the dinner hour waited on civilization, for as e, and people learn that every action has a definite influence wards on character, they begin to understand how, even in eating and drinking, they may subordinate appetite to amiability and intelligence.

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""y'ine time of William III (1688-1702).

The entire change in the liabits of the people of England which took place after the restoration of Charles II (1660) contributed to increase the lateness of the hours for everything. It became fashionable among people of rank and fortune to have breakfast in bed and to hold receptions by the bedside. The ancient habit of all the members of the household taking their meals together was abrogated. Domestic followers and retainers came to be looked upon as "servants," and were treated as strangers to the family. .They were limited to certain hours for their meals, and these hours were not allowed to interfere with those of their masters. Hence, it became necessary to prepare two sets of meals in every household where there were servants-one for the latter and one for the family. This lies at the root of the modern late hours. As the apartments occupied during the day by the family must be cleaned and put in order so as to be fit to receive them when they rise in the morning, the family refrained from rising until the domestics had time to do this, Another cause of late hours has been the vastly improved lighting up of the interior of houses. Even the old wax and tallow candles were a great improvement on what went before: then came the Argand lamp and other brilliant lamps, chandellers, and, lastly, gas, which have entirely obviated the inconvenience which our ancestors suffered from darkness. The pressure of business in large cities is another cause. This is so severe now-a-days in large cities that men engaged n professional and mercantile pursuits sanot spare time to do more than take unch in the middle of the day, so they posipone their dinner until the close of their day's work. But still another, and, perhaps, a more potent cause than all for late dinners, is the suburban railway. In very large cities men of business are no longer, as formerly, compelled to reside near their stores proffices; they can now, by means of railways or horse-cars, be conveyed from suburban residences to their places of business in less time than it took their fathers to walk from their town houses; hence they have more time to devote to business if need be, and they retire when it is over to their families at a later hour.

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Mone hundred guns for the victory which they claim in North Carolina. EXPECTED RETURN OF THE PRESIDENT,

President Grant is expected to return to this a city on Friday next.

THE NORTH CAROLINA ELECTION. Both parties here claim a victory in Nort. Mit Carolina, and the Democrats are firing gun The Republicans to cday are rejolding over despaten received by the Secretary of the In. A function from Collector of Internal Revenu Young, at Raleigh, dated 12 30 last night, say ing, "Thingslook better to-night. The basid and unreliable despatches of the Democrats are being corrected by the official returns. The Republicans are much more sanguine this morning. Smith's election to Congress in this district is now considered certain, and we think we have carried the State." Bupervisor P. W. Perzy telegraphed to-day, at noon, from Raleigh to Secretary Delano: "Everything is brightening. Cadwell and the whole State thete is elected." In the care of the secretary conduction of the secretary Delano:

TREASURY DECISIONS.

In the case of small backs, ranging from three to eight ions buriden, cruising is plea-sure boats on the waters of Lake Erle, and which are sailing without papers of any kind, land was be the Secretary of the Treasury has decided that the secretary of the Treasury has decided that these vessels are not yachts in the eyes of the law, as they cannot be enrolled and licensed, nor are they entitled to the privileges of yachts, though used as pleasure boats, and the Collector is instructed to issue to them the proper documents for vessels of their tonuage upposed in the constinu finale. 22

and the resc of a steamboat altered into a In the case of a steamboat altered into a barge, and where the owner applied for papers and desired to change her name, the Secretary decided that the vessel was entitled to such the state of a steamboat in other vessels of her papers as are granted to other vessels of her class and character, but Congress alone by special legislation could authorize a change of her name.

WASHINGTON, Aug. 4.

THE PRESIDENT'S RETURN. Information has been received that the President expects to return here at the close of this week.

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dangerous but we find it to agree

NORTH CAROLINA REPORTS. Tivate telegrams continue to be received on North Carolina. Those from Democratic ources still claim the State, though by a majority reduced from former calculations. The uncertainty which prevails in the public mind prompts frequent inquiry at the several sources of information for the latest inteilligence.

"^" from General Dix.

gree with us, hence a supper at bed line looks

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Onglish supper consists of cold meat, pre,

ENGLISH SUPPER.

the Third's time (1327-1377) the dinner hour was nine. ater

in nations become e Seventh's reign the cc. Crorzwell's time at one, ionable people dined al 1740, complains of Lady and says, "if such doing

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BAD "FASHIONS." The system of late dinners, now carried to such an excess in fashionable circles of into the region of the et society in London, has called forth the dephysico-intellectual, ins nunciations of medical mon, who have discovered that much of the prevailing sickness is attributable to unreasonable hours, and the over-eating which they stimulate. The dinner hour has been gradually postponed from six o'clock to eight, and even half-past eight; and this has brought about sent himself from Mar the fashion of taking a hot and solid meat lunch about two o'clock, followed at five by Jowper says four was i a service of tea, or a "kettle-drum," as it is marter of a century and termed. So that a fashionable Englishman and the dinner hour w now takes four meals a day-viz, a substanpeople learn that every ; flat breakfast about half-past eight, a lunch on character, they begin at two, a tea at five, and a dinner at seven or eating and drinking, the eight, over which he passes two hours, de-amiability and intallient his palate with such dishes and amiability and intelligencompounds of soup, fish, flesh, fowl, vegeta-

""" "ine tiles and fruits, as the skill and ingenuity of a Thorofessional cook can.devise, washing the peophme down with various wines, such as hock, the Therry, Champagne, Sauterne and Moselle, buteduring the dinner. After it, when the dessert for is laid, the potations are varied with port, amoMaderia, and claret. This is his regular daily bres fare; but to it must be added his irregular acquisitions, such as a glass of Curacoa, Llie or Maraschino, or hock and soda water, me when he arrives at his club in the morning, me to read the papers and smoke his cigar, or fol to takes hand at morning whist or billiards, up also, a biscult and a glass of ale or wine at str twelve. This is pretty well for a day's di-101 gestion; and, even if moderation be obhot served as regards quantity, it is evident that the stomach is tried with too frequent thö nec doses and two great a variety under such a eve system. Thirty years ago, the eminent phyvan sician, Sir Henry Holland, pointed out the fam general excess in the quantity of solid food late taken by these fashionables in England; duri and, and medical men have asserted that haceiv bitual gluttony is more injurious than ha-The custom of the f bitual excess in wine. dom; medizeval Europe was to have three meals causta day-breakfast at five, dinner at twelve, proviand supper at five or six. In Germany, an Even early dinner and supper are still the rule. a gree One o'clock is about the usual dinner hour, then and Tew German Couris dine later than liant three or four. In Italy and France, the whicl dinner hour has not advanced beyond nienc four or five. In this country, the dinner darkt hour of operatives varies from twelve to citles one, of business men, from one to three now- and those who give dinner parties usual, fix the hour between five and six. But it n p England, they have approximated to the cann hours of the ancient Greeks and Romans. lunc Modern London now rivals the Rome of post Augustus, and the result is seen in the great their increase of dyspepsia, heart disease and perh late apoplexy. very large cities" iden of business are no longer, as formerly, compelled to reside near their stores proffices; they can now, by means of railways or horse-cars, be conveyed from suburban residences to their places of business in less time than it took their fathers to walk from their town houses; hence they have more time to devote to business if need be, and they retire when it is over to their familles at a later

hour.

5. or drives exercise. Everyone who rides horses is aware of + also metal We should wit a while tefore we HORSES. eat. The Americans are in fault here again. REST MEALS. We should rest a while after a meal. An old proverb says " After dinner sit a while, after breakfast, read a while, and after supper walk a mile" According to this, supper should be the lightest meal. TIME AND As to the time of meals, there is no mule NUMBER OF MEALS. Two or three centuries ago, dinner in teng-PARIS evening In Paris but two meals per ENGLAND day are eaten while in England, at least four are eaten It is curious for the tran eller to find that both modes agree perfect by wellwich him. When we lat often, we take less at each time, than if we do not eat soften. The Onglish support bedtime surprises Americans. It is well known that what are called late suppers do not agree with us, hence a supper at bed time looks dangerous but we find it to agree very well. ENGLISH SUPPER. The Onglish supper consists of cold meat, hie,

They Blackbouch Myriene of Alimentation, 1. Manner of Cating , 2, Frequency, 3. Quantity In. Nature and Quality of Lord, 1. Car slowly, after sest, with the mind free from care. 2. Take no. violent exercise, or seven study, soon after dunier. 3. Eat always when hunging ; best not much between regular meals. A crumb in time saves Solid ford, - 3 vigetable; inthe 2000 50 fl. or lique. mine Menimum, - 12 or solid food daily. Maximing in Arctic climate, 20 lbs fat mat daily. Classification of Food! 1. Mithogenens, 2 Amylacens, 3. Olaginas, p. Aarla Stalin (

bread, cheece be. Their breakfast at about 9 o'clock consister of cold meat. Junch is taken OTHER MEALS OF THE at 10° clock and dinner at from 4 to 6. o'clock. ENGLISH. Our tea, is overlooked, or if not, the slices of bread which form it, are so this that they hardly hold together. The reason that in Ongland supper can be eater at bed time is, that a long time has elapsed since the last meal. They have dinner late and do not feel hur gry at our supportine. We take dinner early so that we get hungry about 7 o'clock. If we eat a fill meal then, we do not feel hungry at bed time; A gener al rule is to eat when we are hungry. A full meal takes four hours for digestion. It is EATING often asked if we should eat between meals! MEALS. If we are hungry, we should, if not, not. We should not take much between meals. In sick-Crist ness, a patient very often cannot wait until PERSONS, meal time. In low fevers, as the typhus, the patient has to be fed every hour. It is a matter of consequence not to delay giving food to sick persons. Falle patients often suffer from such delay, The importance of giving

8. or a drop A crumb in time saves mine Case: of a lady Intrist occasional convulsions, neuralgic attacks, ditto. Good of 1 Statum, 1867. End of 17th Lecture, 1872.]

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GUNSHOT WOUNDS. - The Boston Courier is responsible for the subjoined contribution to the literature of this branch of surgery :---

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A wounded man in St. Louis informed the doctor that he was shot between Murphy's and the depot. a the The physician said he did not know precisely what parts of the human body were designated by those Cem titles, but he had no doubt a gunshot wound in such a spot was excessively dangerous, and he recommended that the man be kept quiet while he went home and hunted around among his books to find whether Murphy's was near the heart. He has not being habituated, yet returned, and the invalid, consequently, is get-

"Parrish's Pharmacy is a work above us that a this side of the water, and the fact shows us that a really useful work never becomes merely local in its fame. Thanks to the judicious editing of Mr. Wiegand, the posthumous edition of "Parrish" has been saved to the public with all the mature experience of its author, and perhaps none the worse Actic regions, the grea Oct. 17, 1874.

Lood makes heat, and LARY-New Edition-Just Issued.

FORMULARY.

them, a large amount inal and other Remedies. The whole adapted BERT E. GRIFFITH, M.D., etc. Third edition, echee ions, by Jonn M. MAISCH, Prof. of Materia In one large and handsome octave volume

ESQUIMAUX. Carbo - hydrogens , \$5 50. 12 said that four Os Pharmacoppeins. Much obsolete matter bas realship, and that conclines 20 lbs of fa eatern About 10 lbs is their usual allowan tallow candles to being thrown in. disease called bulinia there is an excessive BULIMIA. ent 64 lbs of food perday f MIN. AM'T. 1.11 six days In Arctic regions, the minimum ARCTIC REGIONS. amount of food as reported by Capt. Par is 20 oz. solid fogd, 10 being of biscuit, 1 of cocoa and gof meat. The maximum about 20 lbs; the

speaks of a certain woman

Dr Min. Ser truts (1873) Dyspepsin by feeding will swell and frutness substance every 10, 20, 30 menute ! for BOS

Dr. Brown-Séquard considers that the facts observed under this treatment confirm "the view that we are naturally organized, like most, if not all animals, to eat very frequently, and not, as we do, two, three, or four times a day;" and that "functional dyspepsia, when once it has begun (never mind by what cause), is kept up and increased by distention of the walls of the stomach." It might be supposed that there would be trouble from the distention of the stomach on the return to the ordinary system of meals, after several weeks of the treatment described, but in no case has he found this to occur.

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End of 17th Lecture, 1872.

3. WIEGAND. Iges, with 280 illustrations : cloth, \$5 50; , \$6 50. food to the sick is male than it ual, al neural gras anody heartily recommend the work, not only to pharmasoup is better REGULARITY 90 cular, Aug. 12, 1874. ulanty in the time of MEALS. important. All our over being habituated, Perhaps one, if not the most important book upon nature & The next subj QUANTITY OF of food. It valles -1-2h, F 00 D. Arctic regions, the greater of the blood - London Pharm. Journal, Oct. 17, 1874. Lood makes, heat, and LARY-New Edition-Just Issued. FORMULARY. them, a large amount le hee ions, by Joun M. MAISCH, Prof. of Materia ESQUIMAUX, Carbo- hydrogens, \$5 50. 12 said that four Os Pharmacopress. Much obsolete matter bes "Tal-a ship, and that constrings 20 lbe Ealenn About 10 lbs is their usual tallow candles &c. being thrown in. desease called buliners there is an BULIMIA. boy and 64 lbs of food, per day lité. MIN. AM'T. six days In Archie regions, the minimum IN ARCTIC REGIONS. amount of food as reported by Capt. Par is 20 oz. solid fogd, 10 being of biscuit; 1 of cocoa and gof meat. The maximum is about 20 lbs) Alluman speaks of a certain woman

LY REVISED AND ENLARGED,

J. S. Pharmacopœia, and the sudden death of Monthis new edition beyond the period expected. h have been placed in the hands of the editor, embody in the work all the improvements of duced during the last ten years. It is thereintain the reputation which the volume has and work of reference for all engaged in the

> cists, but also to the multitude of medical practitioners who are obliged to compound their own medicines. It will ever hold an honored place on our own book shelves .- Dublin Med. Press and Cir-

With these few remarks we heartily commend the work, and have no doubt that it will maintain its old reputation as a text-book for the student. and a work of reference for the more experienced physician and pharmacist. - Chicago Med. Exam-iner, June 15, 1874.

pharmacy, which has appeared in the English lanplating, when his appeared in the English ad-guage, has emanated from the transatlantic press. "Parrish's Pharmacy" is a well-known work on this side of the water, and the fact shows us that a really useful work never becomes merely local in its fame. Thenks the indicate additions of Markov and its fame. Thanks to the judicious diting of Mr. Wiegand, the posthumous edition of "Parrish" has been saved to the public with all the mature expe-

inal and other Remedies. The whole adapted DBERT E. GRIFFITH, M.D., etc. Third edition, In one large and handsome octavo volume

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Case of Bulimia. - Dr. LUBELSKI, of Warsaw, has forwarded to the Paris b-Académie de Médecine the particulars W of a remarkable case of bulimia occur-5t ring in a woman twenty-six years of age, is usually enjoying good health. She had d been married but two months when she was seized suddenly with nervous symp- toms, which were at first attributed to d probable pregnancy. But at the same e time came on an insatiable appetite and e devouring hunger, so that the woman e would eat from fourteen to sixteen pounds (Russian?) of meat daily. Neither sugar nor albumen were found in the urine. She grew enormously fat, so that she became unable to walk, and weighing about 250 lbs. All known therapeutical agents there was quite an abnormal tolerance of fecture, 1872, poisonous substances. Neither train nor any other form of helminthiasis existed, nor, indeed, any pathological condition which offered a clue for treatment, although the occurrence of convulsive paroxysms when she was not supplied with food seemed to indicate some kind of nervous affection. M. Lubelski, wishing to have the opinion of the Academy on the nature of the case and the treatment to be pursued, a committee was appointed to report upon it, consisting of MM. Béclard, Personne, and Vulpian .--Med. Times and Gaz., June 12, 1875.

Dr Br. Seig, treats (1873) Dyspepin by buding all swell amite of metations

time saves mene

received convilsions.

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120, 1867.

food to the sick is now more properly setisaip that the Vest anodyne is food, that at bout REGULARINOF Soup is better than a grain of opium. Hog-MEALS. ularity in the time of taking our meals, is important. Allow organs are capatable of being habituated. Habit is, with us, a second QUANTITY nature & The next subject is the quantity FOOD. of food. It varies in different places, In the Arctic regions, the greatest amount is eaten. Food makes heat, and as it is very cold Esquimaux. Carbo- hydrogens especially are wanted. Itis said that four Esquimanx will eat a ship and that sometimes solle of fat are eaten's About 10 lbs is their usual allowance, tallow candles &c. being thrown in. In the BULIMIA. disease called bulinia there is an excessive-MIN. AM'T, IN ARCTIC REGIONS, six days In Arctic regions, the minimum amount of food as reported by Capt. Parry, is 20 oz. solid fogd, 10 being of biscuit, 1 of cocoa In Dr. Jawis speaks of a certain woman who

10. D Brendy Welles nent? and meat 1870; in England fatal when watched , Dr. Janner 1870; in England fatal when watched , Dr. Janner 1880 40 Joy 1880 40 Joyp Plethely says . -Carbon 4005 grains i Carbon 4500 mth J fair average

Munacipta of allowing tells of Reuhen Kelley, whose sold Druke ford was water. little for 53 Days; for say makes he the 16th Unalled at wy Day. Far of ated till the day of his death. (Transand albary a book CORNARO. it ford metitite, 1830. com -Big, Logis similar, but shatter terme ; fears 3 mules ? without fort compatible rould. markof uno h he walian took 2803. of food and lived over AVERAGE Toyrs. These are entreme cases. The aver Minan age maniant is about 40 02. of solid ford Isof it vegetable; and 20 to 3 2 of liquid. Dr. Dr. DALTON'S Dalton states the following to be the average Dr. PARKES 52 water: Dr. Parkegives the following STATEMENT statement, in average man should lat form 22 to 2303. of water-freefood when not under election; 30 03 when under exertion. The am amount of nitrogen should be 250-350 grs; carbon 3500-5000 grs; salts, 400 grs; water, 98.00 02; carbo-hydrogens, 14 4 03. 9

That is a R. Willis on Sugaris Edwight Sister 10. @ Brent) Eight anthon, Dr Robt, Willis to be South Jeans authenticated, of the master of a water-- logged ship, who summed 28 days and meat without any soled food, with no knike beacht name water gathered in the palm of the mas much exposed to the spray of the sea, - this thick clothing almost constanting betwarded. 18770; in England fatal uhen watched, Dr. Janner 18770; in England fatal uhen watched, Dr. Janner 1880 40 Jan Poletheby says, -Carbon 4005 grandie Carlon 5791 1) at it Steaty Carbon 4500 mth J fair average

little. the 16th a book CORNARO. to food com gears rould. Toma of wine h he have the median took 2803. of food and lived over AVERAGE Toyrs. These are entreme cases. The aver Minaux age minimut is about 4003. of solid ford Isof it vegetable; and 20 to 303 of liquid. Ir. Dr. DALTON's Dalton states the following to be the average urm: 16 03. meat, 19 3. bread, 3'2 3. fat, and STATEMENT Dr. PARKES. I water: Dr. Parkegives the following statement. In average man should lat form 22 to 2303. of water-fractood when not under exertion; 3003 when under exertion. The am amount of nitrogen should be 250-350 grs; carbon 3500-5000 grs; salts, 400 grs; water, 98.00 02; carbo-hydrogens, 14 4 2. 9

Of No Del Letter Captain Kopken 1the brigg (Brendy Sheleftof, was taken aline from welles nenne the wreck of his week Oct. 19th 7. and maart he hay been then since the tabling July 3 d - (almost) all that time without ford, "He had neight 235 ths; when formed, 120 lbs. all he had perished ton one Tanner 1880 40 day Pletheby says .-Carbon 4005 grandi Carbon 5791 1) at Nitimer 302 1) took. hitrogen 250 Hair average

for four years lived on nothing but a little water per day. Cornard, an Italian of the 16th CORNARD century, who lived not years and wrote a book on "How to five fong", and 120. of solid food and 14 oz. of light wine fur day. He com menced this diet when he was eighty years old. His friends were afraid that he would injure himself, so to please them he me day took 1403. of solid food, and 16 03. of une. The result was a sickness from which he did not recover for a month. Another H-atian took 2803. of food and lived over AVERAGE Toyrs. These are extreme cases. The aver MANNON age minimum is about 40 02. of solid ford Is of it vegetable; and 20 to 3900 of liquid. Ir. D. DALTON'S Dalton states the following to be the average Dr. PARKES. J 2 . water: Dr. Parkesgives the following statement. In average man should eat form 22 to 2303. of water-freefood when not unber edertion; 30 03 when under exertion. The am amount of nitrogen should be 250-350 grs; carbon 3500-5000 grs; salts, 400 grs; water, 98.00 02; carbo-hydrogens, 144 03. 9

3 French Mary - daily, 214 grammes (less than plb) ment; but a week, 3.3 lbs animal ford (beef, bacon & cheese), 816,5 lbs veg, subst. (beans, peas & rice.)-D U.S. navy, Kerman army ration, 1871, each week 3/4 pour fresh or salt meat, 6 'h lbs animel ford 33/4 oz. nee orgent, (beef, pork & 1/2 52 peas ormal or preserved meets 11 lbs vegetables 3 pounds pearl barley , beaus, nee, flour, 3/4 OR of salt deich fruit, desic. catch potatoes, & 3/4 or, coffee mixed verilable) 188 litre of branky or with liberal altermen of Sugar, molesses, 1/2 litre wome & remegar Spickles, 5 cigars!

she work In many) DIETARIES. houses, diel The men the women are allowed. oneously." 140 07. It i ENGLISH abover gets ARMY that, the C army, 1lb. ht 140 og. per weekjare bread and U.S. allowed. ount is much LABOR LEONOMY te NENTAL ENERCISE, E is the best Palor or sical, demands Labor causes an increa requires more the greater especially in concentrale diminished. SICKNESS acute distances in diminished. In chronic disease as in consumption, the does not so after happen. Some consumptives CONVALESCE In convalence the appetite is often uni. e sually large. This is always a sure sign of recovery. The convalescent eats frequently rather than in large quantities. Sometimes CHLOROSIS, we meet with a perperted appetite as in chlorotic females. They will eat state pencils

3) French Mary - daily, 214 grammes (less than plb) ment; the a week, 3. 3 Cbs min I lood I had been & cheese, 216,5. the veg, subst. Chenno, peas & U.S. navy Reserver armation, 1871, & to 30 grow each week gramme of ca nitryen 3/4 pour feel wealt meet, 6th lbs animil for 70 kilogramme 33/4 02 nee or goit, Cheef, pork & The on peas or meal or presend meats) much house 11 lbs vegetable 3 points pearl barley ; 2 beaus, nee, fla 10 deiad fruit, des 3/4 OR of salt gaily aten 1 b annual cated potatoes, & 3/4 oz. coffee mixed vertables & Slitre of Granty or with liberal alter. excute of Sugar, molase a litre wome, & megar Spickles Cigars! + needs

/ill Please Call and Receive Their In many ple BONDS. fish work DIETARIES. houses, dietarJAY COOKE & CO., , The men are allowed "Ild SOUTH THIRD STREET. 140 oz. It is placess that, the Engricks AND SECURITIES -1 the women roneously. ENGLISH abover gets ARMY St army, 1lb. Tread and '4 BOUGHT AND SOLD = week are U.S. allowed. In ON COMMISSION. nount is much villarger being)E HAVEN & BRO., N'is the best Palor an LABOR leaning to fi 20 SOUTH TEIED STREET, " Palor or NENTAL Enercise, eithe sical, demands an increase of the labor causes the greater demand. Brain-work requires more sical, demands concentrated foodin in sickness, especially in SICKNESS a cute diseases the appetite is diminished. In chronic disease as in consumption, this does not so often happen. Some consumptives CONVALESCO In convalence the appetite is often uniof recovery. The convalescent eals frequently vather than in large quantities. Sometimes CHLOROSIS. we meet with a perperted appetite as in chlorotic females. They will eat state pencils

3) Franch Mary - daily, 214 grownes (less than plb) ment; the a week, 3. 3 Cbs min I lood I P. I have & cheese, 216,5. lbs veg, subst. (beans, pears & The army ration, provided by law for daily issue to each soldier, is larger than that issued U.S. navy in any other army of the world-of the best Reservan armat ration, 1871, quality, and more than sufficient for the subsistence of the men. each mick 3/4 pound fresh or palt meat, The daily allowance per man is : 12 oz. pork or bacon, or 6'helle animelfor 20 oz. salt or fresh beef. 33/4 02 nee or goil (beef, pork & 22 oz. flour or soft bread, or 1 lb. hard bread, or The on peas or meal or preserved meets 11 Cbs vegetabl 20 oz. corn meal. 15 lbs. peas or beans, and 10 lbs. rice or hominy to every 100 rations, Spound's pearl barley 10 lbs. coffee, or beans, nee, flo 22 oz. tea to every 100 rations. 15 lbs. sugar, 4 qts. vinegar, 3/4 OR. of sall derial fruit, des 22 oz. candles, catch potatoes. 4 lbs. soap, To every 100 rations. 3/4 oz, coffee 3 lbs. 12 oz. salt mixed verilable 4 oz. pepper, 30 lbs. potatoes, 188 litre of branky or with liberal alter 1 qt. molasses, The above ration is due each soldier, and in our large general hospitals, where it cannot be of Sugar, molass habre wine, & consumed, the whole amount due all the sick venegar Spickles and wounded, each month, is passed to the credit of the hospital money, and the portion Cigars! actually drawn from the issuing commissary charged to the hospital, thus leaving to the credit of the institution a large amount in

In many place, as in the British work DIETARIES. houses, dietaries are established. The men are allowed 17903, per week, and the women 140 oz. It is stated, probably erroneously," ENGLISH that, the English agricultural laborer gets ARMY 140 oz. frer week. In the British army, 1lb. bread and '4 lb. meat (196 oz. per week) are allowed. In our army the amount is much U.S. ARMY. Willarger being 266 oz. per week. It is the best LABOR leanony to feed an army well, fabor or PHYSICAL Exercise, either mental or physical, demands an increase of food. Phipical labor causes the greater demand. Brain-work requires more concentrated foodin in sickness, especially in SICKNESS acute diseases the appetite is diminished. In chronic disease as in consumption, this does not so after happen. Some consumptives have as good appetites as healthy persons. sually large. This is always a sure sign of recovery. The convalescent east frequently vather than in farge quantitues. Sometimes CHLOROSIS. we meet with a perperted appetite as in chlorotic females. They will eat slate pencils

When deferved of leep, - as in watching with the Ricks a little externa food lessons exhaustion. Murses should durgop be considered in this to & physician should confider themselves, & ask for food at such time. 26th must not be offerin to taste or smelle

and other earthy substances. Perhaps there is some error in the blood which requires this to overcome it. WHEN TO STOP It is a matter of importance to know when EATING. to stop eating: We should stop as soon as hunger is appeared. We should not eat until we can eat no more. If we can feel our dinner we may know that we have eaten too much; for, in health, the stomach has no feeling. It only has feeling when it is out of order, or when we Real too much or what does not agree with us the next subject is the nature and REQUISITES quality of food. There are place requisites of Food. OF FOOD. 1st. Must Contain Elements of the Body, 2nd. Must be Organic, (except water and salt.) 3rd. Must be Mechanically Reducible. 4 th. Moust be Soluble by the Digestive Fluids. - 5th. Must Contain Nothing Prisonous. Filthough glass contains silicon, an element of the body, yet it is not food because it can-not be reduced to a pulp. The body has ELEMENTS four ultimate elements, carbon, hydrogen, BODY.

16, 16. Thursdo I wayn boins a year.

onggen and nitrogen; besides Sulphur, phosphonue, chlorine, calcium, sodium, silicon, potassium, fluorine, Viron magnesion, aluminum) copper,) These are found in small DIRT EATERS. quantities) Some people eat- dist. This is apparently a contradiction to the statement that food must be organic. The Otto-OTTOMAKA. mack Indians of South America live for a long time on a pound of dirt per day. The Digger Indians of North America eat dirt. DIGGER INDIANS In some of our southern states as Florida, dirt is eaten. A gentleman is sent the Phila-delphia a larva which a patient had vomited. FLORIDA Dr. feidy examined it and found it to be the tarva of the church yard beetle. It had SWEDES, been eaten in dirt. In Sweden, the poor often eat dirt. Relzius found that the earth so eater contains much organic matter, many infusoria. This is what makes it support life at all. The dist-eaters are weak, pot-bellied, unhealthy people. Food is classified (into; acordo to the nitrogenous as the lean part of meat. CLASSIFICATION FUOD deaginous as dire oil or fat & 32 amplaceous as starch or sugar Acidulas: I reine - Aquilo Aquillous.

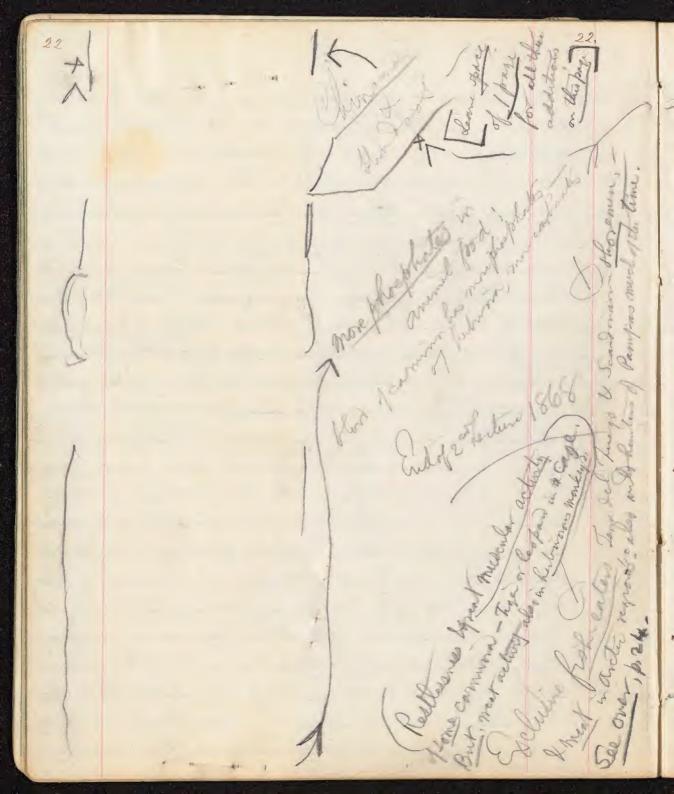
X Misonwell's themis of glycoger of his unity att network of ford a Hord diebeters, the glycone forms sugar, & the tissue fails 2 some the first of the store See left page negt Riccal. Arankland has by chanical experiments (combestion) I calculations confirmed this wiew. Force food in some animals beens a very lange proprision to teens bood . A young robin, it has been shown, eats in 24 hours nearly the once and a half its own weight of food, with say much less than that amount of increase of weight. This is most netting, and a fine

LIEBIG'S fielig classifies food according to its uses, into Plastic or tissue food and caloriefacient or heat and force making food. This chassification needs some modification. The two are often mixed. No food is exclusively one or the other We will first consider nitrogenoods food. All NITROGENOUS occurs in both animals and vegetables, as F00Q. the lean of meat, and wheat. While here, we will discuss the theory of the vegetarians. They think all meat should be abolished. VEGETA They say that vegetables have all the elements, of the body; not only this but that they have In presimate principles to the principles in our todies. They have vigetable albumen, corresponding to the albumen of the body; gluten corresponding to filin; legumin, corresponding to case in. Since these proximate principles are So nez. Jedentical, vegetarians say there is no need of animal food. These is a difference between these proximate principles. Animal and vegetable albumen are not exactly the same. They are isomeric but not identical; just as is the case with onegen and ozone. Thay are OZONE. not exactly the same: Man Robert 131 Roberton

20. 20 Arra Law page the Alps, when going on journeys that involve much exposurs, take with them only bacon pat and sugar - as most sustaining with least bulk. - TOURS CAR

STRUCTURE of we examine the structure of the organe used ORGANS. for food we will compute the true conclusion respecting what food we should eat. We will TEETH. first examine the Leth. The carmivora have incisors and canines. They live on flesh. Ruminante, living on vegetables have molars and incisons but no canines. Man is between the two, having all three kinds. This plainly hointe to him as omnivorous. White the almost which the almost which hive almost which hive almost which hive almost which hive a cartain monkeys, which hive an exception only on vegetables, have even more prominent canings than man. The next organs to conath ane the digestive organs. Att has herbir-DIGESTIVE Droves animals, as the sheep, deer and came, have four stomachs and long alimentary ca-ORGANS. nals. The carnivora have simple stomachs and short canals. Negetable food is bulky and requires an elaborate process. The alimentary canal of the cheep is 28 times the length of the body; that of the lion is three times and that of man six times. The stomach of the horse is small, being an exception, but still the candl is long. The position which was holds in this distinction seems to show what food he is destined to eat

21.



faghes | clarifed to 10.4 1.8 m. he He he 3.2 (1)-Tr VEGETABL fale, nd EATERS 132 -11.0 eir re-P'B V.O. MEAT 18. 0 a EATERS A person of vigorous, health, in a good almost sive work, and with soil food can do without man lives in the city, cannot 111 DB. Portpine Himentary, 281 ALIMENTARY PRINCIPLES T. Nitrogenous Ohin Cleaginous 2 11h d he 3. Amylaceous ey 4. Acidulous st. DE n Salino th be 6. Aqueous. 0.-Intritive NUTRITIVES te. PRINCIPLES Albumen Ann equeme.

solut- cend lock, rendering crossing for pedetrians next to impossible, save at long interval. Much vexation, much loss of time, and muc profaulty (1 am. sorry to add), are the result

Not only that, but the company kept then laborers at work all day yesterday (Sunday in Front of Si, Pani's Church, to the great ranoyance of the woissingpers there. This circum stance has given fress momentum to the Sabharb Observance Association, who are again thinking of reviving logal proceedings, with a view to stopping all the cars from runnin on the Sabbath. The jam in Broadway, occasioned by this new link in the raiffoad chains will also revive link in the raiffoad chains of an street, as the only available measure o relief.

I have spoken of Old St. Paul's. There, the afternoon, they are continuing the laterestic. contennial services commenced yesterday, and of which I had something to say, by way of explanation, in my letter of Saturay. The most noteworthy letture was an address by the ractor, Rev. Dr. Dix, giving an historical sketch of the parish. from its origin to the precent time. The congregation was quite n.t merous.

The most interesting local political more ment to-day is the retunion of the King's county Democracy, who have been for a long timpist running separate machines, to the greaadvantage of the Republicans. Bo h faction have now unled on one and the same county ticket, and it is probable, it erefore, that the will elect it by a beavy majority.

licket, and it is promote, it trivier, that the will elect it by a seavy majority. The Health Inspector reports 409 deaths in this city tast week, a decrease of 66 compared with the mortality of the week previous There were but three deaths from choiera. The mortality from typhus fever shows a gratifying decrease. On the whole, the health of the city now is about as favorable as never was known to be.

The Jews are rapidly multiplying their places of public worship, here. To-morrow at noon they are to lay the corner of Fifty-third Femple Emana-El, at the corner of Fifty-third street and Fifth avenue. This is in the most atistocratic part of the city, and the edifice will be one of the most costly on the island.

A diamand pin valued at six thousand do lars was lost on Broad street to day, and after ward found by a poor telegraph messenge boy, to whom the owner of the pin gave theck for 5500.

Money was in fair demand this morning, $1 n \neq$ without vitriation in rates. Call loans 4 a 5 per cent; discounts, 5 a 6. The Bank Natement a epitomized below 14 accepted as foreshadowing a still easier market:

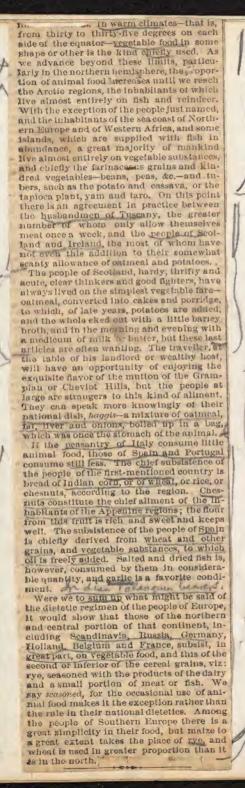
Oct. 20	. Oct. 27.
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	ud. Oct. 29, 1835, \$824,721.943 []
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ao. do.	Oct. 27. 1866. 25,:43,791 7

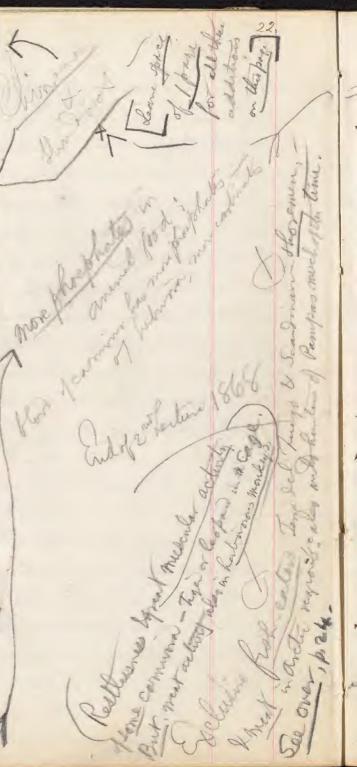
Foreign exchange continues firm. Prinbankers', 60 days, 100%; prime bankers', sign 110%; Paris, bankers', long, 5f. 13%; do. shor 5f. 11%; Autwerp, 5f. 20; Hamburg, 16%; Frank tort, 41%.

56. 11 y; Antwerp, 66. 20; Hamourg, 66 y; Frank tort, 41 y. Gold is rather unsteady. The premium a 10 A. M. stood at 146; 11 A. M., 146 y; 11 y M. 146 y; noon, 146 y; 1 P. M., 146 y; 2 P. M., 146 y 3 P. M., 140 y; 4 P. M., 146 y. Cash good wa Ioaned at 1-32 per cent, premium. The speculative leeling in the stock market was law apercentible this morning than 6.

The spectriality iseling in the slock marks was less perceptible this morning than for some time past. The most exciting feature was Pacific Mail, which went up 9 per cenas compared with Saturday's pice. Roc Island was active. The stirs at the Bonn were nearly 3000 shares at hely a 1093. And and Terre Haute was 4 per cent, and Governments from g to g_1 but most other kinds werlower.

Later in the day, Governments were quied but firm. The following are the closing pricer aregistered, 1881, 113% all 5% Compone, 1888 113% a 114; 5-20 Registered, 1862, 106 a 116 5-20 Coupens, 1862, 194% a T14%; 5-20 coupen, 1864, 110% a 110%; 5-20 doi: 1860, 111 a 111.





blight ball a the 23. Tool for hear low 25, 30, or one 4x VEGETABLE 35 Amelio a day to a light miles on theme 35 miles a day continued, what over il 6 of the damy a Andria. la MEAT EATERS. has It poson of augorous pressures, in your health, in a good atmosphere, with no eaceesive work, and with sery good vegetable food can do without meat; but a person who ALIMENTARY Return Himentary, Principles PRINCIPLES. T. Nitrogenous - Chiefly Plastic. 2 Oleaginous - Chiefly Oynamic. 4. Acidulour 5. Saline NUTRITUE 6. Aqueous Natritive Nitrogenous Principles. PRINCIPLES Albumen - Vegetable Albumen. Neurin. Autaling Myntersain _ Tellegin String Hance Glater and Star See 32 140 + 74 Legumen. Alt Charten

atways lived on the simplest vegetable fareoatmeal, converted into cakes and porridge, to which, of late years, potatoes are added, and the whole eked out with a little barrey broth, and in the morning and evening with a modicum of milk b . butter, but these last articles are often wanting. The traveller, at the table of his landlord or wealthy host, will have an opportunity of enjoying the exquisite flavor of the multon of the Grampian or Cheviot Hills, but the people at large are strangers to this kind of aliment. They can speak more knowingly of their national dish, haggis-a mixture of oatmeal, far, liver and ontons, bolled up in a bag, which was once the stomach of the animal. If the peasantry of Italy consume little animal food, those of Spain and Portugal consume still less. The chief subsistence of the people of the first-mentioned country is bread of Indian corn, or of wheat, or rice, or chesnuts, according to the region. Chesnuts constitute the chief aliment of the inhabitants of the Appenine regions; the flour from this fruit is rich and sweet and keeps well. The subsistence of the people of Spain is chiefly derived from wheat and other grains, and vegetable substances, to which oil is freely added. Salted and dried fish is, however, consumed by them in considerable quantity, and garlic is a favorite condi-Were we to sum up what might be said of the dietetic regimen of the people of Europe, it would show that those of the northern

the dietetic regimen of the people of Europe, it would show that those of the northern and central portion of that continent, including Scandinavia, Russia, Germany, fioliand, Belgium and France, subsist, in great part, on vegetable food, and thus of the second of inferior of the cereal grains, viz: rye, seasoned with the products of the dairy and a small portion of meat or fish. We say seasoned, for the occasional use of animal food makes it the exception rather than the rule in their national dietetics. Among the people of Southern Europe there is a great simplicity in their food, but maize to a great extent takes the place of rye, and wheat is used in greater proportion than it is in the north.

The young of birds which are partly graminizons when grown, eat worms signile 2. I brught to them by the parent; all animal food. alone. 23. The question cannot be answered physiologically, Experience is the true teacher. Vegetarians VEGETABLE say that whole races never eat meat. This is EATERS. true but such people are not vigorous. The the other hand, there are whole races, as the MEAT EATERS. Osquimaux and the inhabitants of the Pampas in South America, who eat only meat. A person of vigorous constitution, in good health, in a good atmosphere, with no exceesive work, and with say good vegetable food can do without meat; but a person who lives in the city, cannot, generally to well. Reten Mimentary, Principles ALIMENTARY PRINCIPLES. Nitrogenous - Chiefly Plastic. 2 Cleaginous > Chiefly Dynamic. 3. Amylaceous-4. Acidulour 5. Saline NUTRITIVE BRIDE 6. Aqueous . Titive Nitrogenous Principles. PRINCIPLES Albumen -Vegetable Albumen. Neurin. Mutalin Mintentin __ Bleeger. Hengin Hand Glad City in See 32 140 + 74 Legumen. 1. Elle terration Elt. Chenter

24 24 Mother's mille alongs har for infants, - if the healthy, or least if not, wet murse; lest the mothe to Abusen I muries in Grance are fearful. hour.

that NATURE PROVIDES d. ANIMELFOOD. MI The second object Hypine CRUELTY. ale. to hom 17 HAVERFORD COLLEGE. t. ided in tooks heologistom The Managers of Maverford rich " untipo CHILD'S As nature furnishes milk to the child, ut might DIET conclude that meat is the best food for it. But opening that they get less than adults. Vigorous children can get along well without meat. Feelle children cannot do with-GUILLOT'S out blat. Guillot, a Frenchman, weighed conclusions infants and came to the complicion, that when infant consumer 2'4 lbs her diego. Table when the to meet to make it for the Birs pass of puittake to make feelle mante live on vegetalle food. They often require very concentrated food. Sometimes infants who can eat nothing else, can be kept-alive on beef tea. - The diet of SICK the eick is classified into low and fulldiet. DIE T.

24. 24 In a Trench industrial establishment, emplaying 630 min mostly vegetaries, the sick find was constantly in debt, The director introduced bitcher's meat into the food of the men; and threafter the average loss of time for the men fell from 15 to 3 days per annum; saving 12 work-days for each man in the year. Mothers mille atings but for infants, - if the mother is healthy, or least if not, wet muse; last the Alaren I murez in Grance are fearful. hater.

An argument of force, against regetarians, is that NATURE ANIME FOOD nature provides the infant with animal food. Wilk is an animal substance. After also object to meat, " Decare it is cruel to kill animals. CRUELTY. This is a very port objection. We find for the Bible and from the early traces of anihelojus mention it made of bones, being found, with the marks of teeth on them, of very great antiquity. CHILD'S As nature furnishes milk to the child, ut thingst DIET conclude that megt is the best food for it. But experience though that they get less than adults. Vigorous children can get along well without meat. Feelle children cannot do with-GUILLOT'S out stat. Guillot, & Brenchman, weighed CONGLUSIONS infants and came to the conclusion, that when infant consumed 2'4 the per diego Teeble when the souther to a mest make it for the Bills parts or pintstake to make feelle mante live on vegetable food. They often require very concentrated food. Sometimes infants who can eat nothing else, can be kept alive on beef tea. The diet of SICK the sick is classified into low and fulldiet. DIE T.

26 26, even of the products accumulate run excertion, in the blat.

WRONG PRACTICE.

Inprivate practice it generally has been as. In army hospitale, it is classified into low, half and full diet. This practice is routine. It is time it were changed. We do not mean that low diet should be abolished. The idea, m which it was based, viz: that there is an to be abandoned. It is not take Sickness to a minus quantity and not a filus alle. We should not weaken a person in order to make him well. What is the difference between a well and a sick person? " here onto taken the month He does not digest well; his appetite is impaired; and his excremence are LOW DIET. diminished. In this febrile state a four diet is necessary. If the elimination by the excreting organs is little, we should not put much into the stomach. But the need of nourichment, is not diminished in sickness. We should not worry the digestive organs, but we should support nature. It has been proved that instead of not-giving food to the sick, we should give liquid, concentrated food. The real times for low diets are in the beginnings of sicknesses." It is surprising to find how

SHOULD GIVE FOOD TO SICK,

I tails concern the new of nourishman of Suit. -able kun our most cases of illness que the true Solution of the problem which has been often misseas to those who have advocates Stimulien or the buquent and large, we way can the general use of alcohol in acute Diseases: Toddier. End of 18th Lecture, 1872. 548 Chil of 2nd Lecture, 1867, 81870. Realized I may in some thing I an about to say ; repeat what you way have heard in the lectures apon Physicage & hottitus Willedreme ; but, neverthelens, the statements Physicage & macessong for completeness. Possibly I may some times vary a little, though I take not much from the

I is how considerable a number of patients & Cases, learly it is an advantage to give food in low FOR ferers such as typhus. Beef tea and milk are FOR sick. nou given in fortent maladies. We may often very give beefter instead of the slope (so called) of the sick room, although some of these as outmeal quel have much nitrogenous matter. EFFECT Ceat or bread, if given to the sick is not di HARD FOOD. gested, The stomach is irritated and through signification, the semi-lunar gargeion is affected. In most instances of sickness, then, concentrat FOOD. of an high fever I have the found that in half an hour after taking beef tea, copious NUTRITIVE herskization and other good effects have for NITROGENOUS loved & All nitrodering principlest are not ALBUMEN, nutritive, and treat of the subilive. Album nis assumeron sanguinis; addition wentered julated by heat at about 145% 170? It is also coagulated by alcohol, strong acids, lannin, corroctive salte, and create. Albuminoid tissue is coagulated by the same substances. Some tienes are tik albumen although SIMILAR TISSUES it does not exactly the same; thus the contraction IN THE BODY.

Hyntim form 30 DIFFERENCE How a differes chemically from blood fibrin. MUSCULIN my in being scheble in a volution of hydrochloric BLOOD FIBWIN. acid, as the latter is not. Such Helden's Syntamic of Aduption chiefly (som osma zome public) in brown fait freeflan's * Hundey's porte of the corpuseles, makes slid filowing is at the wheel with Schulin of the corpuseles, makes slid filowing is at the wheel with Schulin of the corpuseles (sa L.S. Stilles pipe) and wheel with Parafobuling. Michlessays no filies in Cast unprover Parafobuling. Michlessays no filies in ling Hord -Casein is congertated by feels acids, as actic, T COR^{GULATION} CASEIN, lactic &c. which will not coaquelate affument. Thus in the andling of milk, the case in instigated, the sugar CURDLING OF MILK. of milk with the lacke acid then curdles the case in with under the

(When dreened Station Jenny Comme nont cat crabilly to muctus and nervous ublance. TOOTH-ACHE is taken advantage of h-ache comes desserve En by creasete. Sometime. the concers abbor venico. & the use is of lead OPACITY OF THE AQUE OUS HUMOR. abit game .. coming in contact men as food is very great. dustriliam are ditin the fore and album getally alshaked at war of enter oysters. burnen is found in ce MUSCULIN. good. Manager & Sucher t. Defore at Finde me the time of fieling it d from utritions than fibrin. Dogs for S. Imerianstrand d 31 days on My Bilins, 55 days monther gaust frin ie FIBRIN. not well known. A cal turte hether it is going to make tivere or program it is en-crementations. The do know that it coagu-CONSANEONS lates spontaneously, but why it does so, we cannot tell. Richardson's theory that it is am THEORIES monia that prevents this congulation, is not-accepted Fister's theory is better. Here to fibrin AND LISTER. and a little in blood and in milk and cheese CASEIN. There is nearly pure casein. It would be very valuxable as food but that it is so tough.

monter allegate of 30 From mysen & 30 Codechapor (p.30) ester in taly Cantred. 212 Sypsies in England entites geloni. franch wholes it wills dustrations at wakes hemically from blood fibrin, DIFFERENCE mothes I quel wormed BETWEE a solution of hydrochloric is not suite Wel allens support MUSCULIN THE BLOOD FIBRIN. S. sea clean cat o rate not mille A these with store a proto and bringen in the tiques sangienes while, puesles, makes solid planin, is at he which with a white corpusales (sa L.S. Stilles pipe) but wprover Paperlebular wie Pa Parafolulion Möhler says no film in Casein is forgulated by feels acids, as acidic, F COAGULATION CASEIN, lactic &c. which will not coaquilate affument. CURDLING OF MILK. of milk into the lacte and then curdles the case in milared.

31 (When discussed the generate, still more albummord. muctus and nervous lissues. This resemblance TOOTH-ACHE is taken advantage of, in curing a tooth-ache by creasate. Sometimes an opacity of the aneas coming in contact. The value of albumen as OPACITY OFTHE AQUEOUS HUMOR. food is very great. In meat, we find it in the first and albuminoid lissues Vegetable alburnen is found in cereal grains. They are equally MUSCULIN. good. (House on syntonin comes next. Before the time of fielig it was not separated from the fibrin of the blood the It is more nutritions FIBRIN. on Millin, Jogs fed on fibrin lived 31 days not well known. We do not know whether it is going to make tissue or whether it is en-SONJANEON 2 lates spontaneously, but why it does so, we cannot tell. Richardson's theory that it is am THEORIES monia that prevents this congulation, is not AND LISTER. and a little in blood and in milk and cheese CASEIN. There is nearly pure casein. It would be very valuxable as food but that it is so tough.

Order of Primiples: 10 Natative Values; Withoguns Alytin (Suiten Fringer) Neumin Protagon Albumen (Veg, album) Hawath Couron - Elphilin Casein (Lenim) Chorator (Selating) Jubra Staten Crupin, & Hamodelin, the colors watter of unchanged Kord a pushe Hamin & Hamatin, the same winhat changed -Volution in crystattine lens also of Homorfolin * Martall bother question the poverty of Walivoras food . Protectly the best view is, - that chondrin, ofthe tissues, is matritions, but gelaten, got I define somethit in its properties, Elater make a force food.

toag. CHEESE. It is not very available as food, but it helps to digest a large dinner. An old provert earys: Digest gall things but itself." (Code of Salesmin) It acte like the pepsin of the gastric fuice By the spontaneous decomposition, it acts as a ferment. When the pepsin is exhausted by a large dinner, a little cheese, especially if it be old, helps the di-LEGUMIN. gestion greatly. Regumin is vegetable casein. Dt- is found in peas, beans lentile se. These BEANS. would be the most and less his foods, but for the fact that they are deficient in paster. They are therefore not equal to bread. Neurin il NEURIN. found in brains. Brains are nourishing; GLOBULIN. Globulin and he matin are found in the HEMATIN. blood. They entertain the gravy. How and and con-GELATIN. Down bodies obtain irondon Gelatin is the least metritions of these provident Since the obered food for convalescents. This was proved in two ways. Dogs, fed on it alone, died sooner than when fed on any other ar-

千 * This most of all important in commeter with metro. your intertain prior most complex and becomposite fell again matrices. (Pariffin melto at 3000 Cther Food - preserving Substances ANTI-SEPTICS. are vinegar (as in pickling) and oil. The latter VINEGAR. is used for small fish as sardines & and , 01 L, and in staly, to keep wine by floating on its surface and excluding the air. In this its action SYRUP, resembles that of eyrup in preserving fruits.

due, so far as could be ascertained, in both cases, to some degeneration or alteration of the mucous membrane of the uterus; 3, the same results followed the use of the galvanic pessary the hemorrhage was supplanted by a profuse leucorrhœa, with some pelvic or uterine pains; 4, the recovery seemed to be complete in both cases, one menorrhadic period happening to both several months later, but not followed in either case by a second.

ED.

POPLITEAL ANEURISM CURED BY CONSTRUCTION OF THE FEMORAL ARTERY (New York Medical Journal, May, 1874) .- Dr. N. A. Robbins reports a case of popliteal aneurism of about three months' standing, occurring in a negro, aged 30. His leg was drawn up, swollen, and ædematous, and he was delirious from the excessive pain. The femoral artery was cut down upon in Scarpa's space, exposed, and Dr. Speir's artery-constrictor was applied. The instrument was kept on about three minutes, and then removed ; pressure was kept on the femoral for ten minutes, in order to favor the formation of a clot at the constricted part. The wound was closed by wire sutures. The pain seemed to cease immediately after the operation, and for the first time for weeks the patient slept soundly. In ten days the wound healed, and in three weeks he was walking about almost entirely cured.

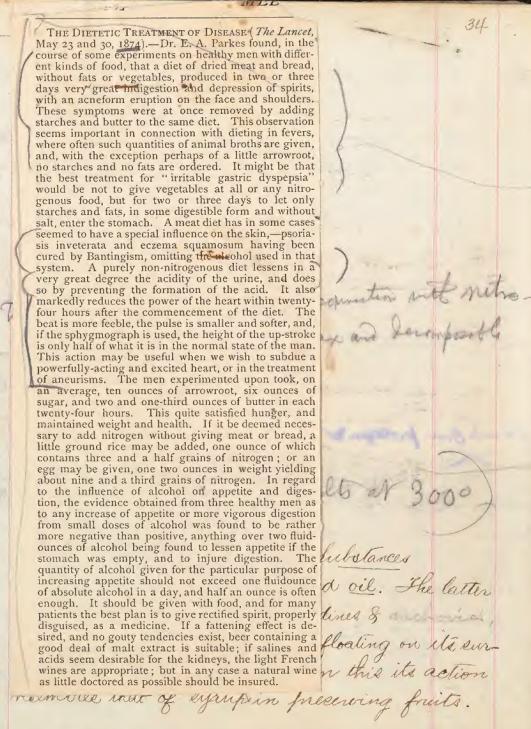
TREATMENT OF CHOLERA BY THE HYPODERMIC IN-IECTION OF CHLORAL HYDRATE (London Lancet, May 2, 1874) .- Dr. Hall, in a paper published in the Indian Annals of Medical Science, states that in the cold stage of cholera, instead of exhaustion of the nervous system, as is generally supposed, there is intense irritation of certain sets of nerves. He suggests that the principle which should guide us in the treatment of this condition is the endeavor to quiet the nervous system by the action of pure sedatives, and recommends the practice of hypodermic injection of sedatives in the stage of collapse. Subsequent experiments as to the physiological effects of chloral hydrate have induced Dr. Hall to make a trial of this agent in cholera, and his practice has been followed by others with satisfactory results, so far as the reports at present extend.

ACUPUNCTURE IN DROPSY (The British Med. Jour., May 23, 1874) .- Dr. W. Munro reports two cases of general ædema, one dependent on organic disease of the heart, the other on anæmia. In both cases all kinds of diuretics were tried without success, but finally the former case was relieved and the latter cured by the frequent puncturing of the distended skin with small sewing-needles, making twenty or thirty punctures two or three times daily. This procedure always gave immediate relief to the dyspncea and other distressing symptoms.

APPLICATION FOR BURNS .- M. Lebigot recommends the following mixture as having been very successful :

> R Cape aloes, 4 ounces; Water, 10 ounces ;

35 emarked, here that no tars We must have all. excrement of the dogs so that nearly all the gelathe bowels, unchang 7.8 d. this, because gelating of the body. It is supposed issue could be removed and fect skeleton of the form must have some atin ason therefore that felly aps that it is changed iling. He will next take but lefore this we will of preserving food plies for good. Nitre Stycerin Sulphites Charcoal alychum of de I ryness, decay All nitrogenous substances Is prevent



ANTT-SEPTICS.

VINEGAR. AND OIL,

SYRUP.

35 ticle. It may be remarked here that no O one proximate principle will support life; nei-ther will any one class We must have all. EXAMINATION By examining the excrement of the dogs to fed, it was found that nearly all the gelatin passed through the bowels, unchanged We are surprised at this, because getation to SKELETON. most abundant lissue, of the body. It is supposed that if every other tissue could be removed and this one left, a perfect skeleton of the form CHANGE IN would remain X Selating must have some use in the body. The reason therefore that jelly is bad food, is perhaps that it is changed by the process of boiling. He will next take up Appinous food; but before that we will speak of the modes of preserving food The Antiseptics for Good. ANTISEPTICS. Salt. Nincent Nitre Sugar. Sly cerin Chancool Sulphites Spices. Control series Charroal Heatyour for Cold 5 Dryness, Lochum 1 an decay soon. To prevent substances All nitrogenous

36 36 +(1 addelars on pand a new mode (1870-1) used in Ferras, with assertion Success - soud the by injecting air at a low temperature, & then sealing up.

100 the ap ma an wa co SALT. Mounda SUGAR. w A proping the should be also of the should b SPICES heren ald. their, said to onlied on to the one to nited NITRE her enne 15 that Sulphite & Wasser First Seeston Sulphite & Masser Services Marchalles of an address of an address Marchalles of a definition o SULPHITES, GO mere. 10 cons. the mean upor mail Ecelunical services ion of oxygen. u the b Wash Q CHARCOAL IN there Cider. rery cr m Do, conditions " Til HEAT very high tempera o ture a very lou -one MOL 02 ess. The, COLD drim latter the fective as il DRYNESS. A omer alo In South America dried, ma Che. enal . n remmed Ce. buf falo dried, 1 nee alell CANNING. freed mana acr-light vesse Ne thus not only preserve the article, but also preserve * Theating & sealing. its original taste.

A (1 - D. H. Eabenam of Boston propon thep mak by cutting it in Shies, drying below 1400/ 40 as not to conquelate all. & fibred and them growding to powher in a mell, It can then be prepared for use at any time with math, In a hot air changes R page - addeling on for an a new mode (1870-1) usid in Ferras, with addenter Success - soud the by imposing air at a low temperature, & they sealing up.

Their decomposition various substances are used. - may not let. When the article -ov food WASHINGTON, March THE VIRGINIA DELEGATION. The delegation appointed by the Legislai of Virginia called yesterday upon the Sena Committee on the Judiciary. The interview many things y for arel was of a bigbly satisfactory character, and the Al Level on dout anatomical su latter was assured of the earnest intention of the State to return to her place in the Union under the terms proposed by Congress. The delegation, just previous to their returning to od wta 110 would be dele Ung Bie Richmond, visited the President of the United Richmond, visited the President of the United States, who, according to the statement of one of the members of the delegation, said he was appriaed of the object of their mission: that notwithsunding his opposition to the Recon-truction bill it was now a law of the land, and he should faithfully execute it; that he thought the Legislature had done right by presently accepting its terms, which he house N. ad SALT. combines with 22 - ND. mol-a all no moundbook as fresh cons. 11- as ed, prompily accepting its terms, which he housd would tend to alleviate the bitterness produced upon tel mati by the late war, and at an early day restore the Sugar is? feel SUGAR. well Southern States in all their relations to the Sull la selver? Federal Goverhment, ante CONGRESS --- First Session. the b pecially. SPICES spices and WY er use WASHINGTON, March 16. wash Formerly saltpetre when on Commerce a bill to amend very Derive NITRE of an act further to protect tree ers on steamboats, so as to SULPHITES, good, but it gives clothing sweetness a the meat. Sulphite of Roda prevents ion of oxygen. Hence farmers fin CHARCOAL in their Cider, Oharcoal absor conditions. favorable to preservation very high temperature, a very low one and HEAT dryness. The latter is as effective as the COLD DRYNESS former to South America dried meat energy. In the West, permisan ade buffalo's meat dried, is k used, id. to har Paleli en preserved CANNING. als free We thus not by means of air-light vessels. only preserve the article, but also preserve its original taste. * Their V sealing.

36 id dollars, shall be imp#2 demands legislation more urgenia h the crowding of people in halls from atch the modes of egress are narrow and cramped. AGED MEAT,-A letter from Stockholm reports that at a meeting of what is known as the Idun Society, recently held there, the n 10 members eat for supper beef that was forty years old. In 1827 Captain Parry placed at fe School Point, Spitzenbergen, a depot of meat. The flesh was in tin boxes, buried beneath a quantity of stones. The white bears had ig 1c displaced some of the stones and destroyed CAT 8D BG th 4. 30 several of the boxes, but a few still remeined sthies : intact, and were brought to Sweden by a hould Swedish scientific expedition. One of these d gious boxes had been given to the Idan Society. his who found the meat perfectly eatable and of good flavor. Classes ching 93.5 li vislt, BRITISH COLUMBIA.-In the Canadian federation bill now before the English is. But ment, it is provided that Britis); > now! may ultimately be admitted to ow far hours when 140°. ration. The people of the propose to hold a public 3 can 1870-1) usid in Ferras, with advertis said the by myseting are at a low temperature, & Juccess ____ they sealing up.

Their decomposition various substances are used. When the article is not intended for food, many things are used. Thus in preserving anatomical subjects, substances are used which would be deleterious if put on food. Salt SALT. combines with albumen, Salt meat- is not as providents as fresh. We cannot live on it as well. Sugar is used for preserving fourte, is SUGAR. SPICES pecially. Spices and suephites are also used. NITRE Formerly saltpetre was used. Glycening is SULPHITES good but it gives a cloying sweetness to the meat. Sulphite of soda prevents the action of oxygen. Hence farmers the put it CHARCOAL in their cider, Charcoal absorbe gases. conditions favorable to preservation are, a HEAT very high temperature, a very low one, and 1010 dryness. The latter is as effective as the DRYNESS, former, the In South America dried meatis used. In the West, permican made (This of buffalo's meat dried, is much used, CANNING. fately meats and fruits have been preserved by means of air-tight vessels. We thus not only preserve the article, but also preserve its original taste. A Weday & sealing.

38 in the Star Strat toolous's The Esquimence, se allefor sendeers fait - Dendoe, ghee, a Service of the state of all on the The fit always been rependent open Curlised world. I A Simpon observation mool factories, where a A deal gol a week for plais now away three for Aloud Dr Hughes Bennett states that oilmen works Weters tamers hand only those of the Organis I convenient with the Dr Horkey republic that other Dyring I convenient in this States alout have never week fat mealt country Morenny

It a both veg. I animal in origin. OLEN FOOD. We will next treat of obaginous food Fats and oils we compared where provincite frim ciples as olein, marganing and stearin. tack of these is composed of an acid and a base. This base can be exparated by an SARONIATCARION alkali, by the process of exponification. This process takes place in digestion. Olein, in olive oil, is the most liquid of these, margooin, is next, and stearin next. USES Fat is needed in the body. From pole to FAT. Tomet hole, wherever man is, he consumes fat. TO ENRN, Fat has several uses. 1st. It makes fatty liesue. Ind. It acte as fuel, As oil burns well in the open air so in the blood it does; TONO 01 3rd. It aids the digestion of other food. I en very small quantities it is good, but in large quantities it is not, as any one may test by eating a pound of butter, #th. It aide assimulation. It is supposed that it TO Stare may have something to do with the forma tion of cells. If we let a drop of oil fall Minto albumen, it will collect a thin membrane around it. A certain proportion of fat is necessary. Is tubercular de real of the definition

40. 40 A Of the amylaceous group, besides starch, destrin, CELLULOSE CAND A. and gum, alleloss and lignin should be named. Р * As already said, our force food hers. lang propotion to our tiesene food. How placeboard Some Letters in the Control Butter Indian Merel 3015, 120 1 Bakais brigh 1975 88 A 599, 38 2 New Milk Rye Mal, 2593, 86 Secondo Alone, 2700, 116 Oatmeal 2831, 136 3 Chidda, Cheese 3344,306 " Beef 5 Muttor 1854 184 Ren 2 2732, 58 1900 181 Ó Polatres 3 759, 22 6 Red henny 1835 217 1 Cocoa lb. 3934, 140 10 Beer 274,

Bantingren 1 Cod Liver Oil. A Truth case 41 AMYLACEOUS We will next consider amylaceous food, as FOCD starch and sugar, with deatrin intermediate; PROPORTION also gum, Amplaceous food differe from oleaginous in the proportion of onggen being the same as in water. Carbo-hydrates or anylaceous foods, are very important. They constituted the bulk of vegetable food. They help EXPERIMENT and they continued to make wax. I dewas objected to this experiment that the sugar was impure. That sugar may be transformed into tissue is proved by the NEGROES. fact that during the harvest reason in the with the negroes grow very fat for > Banting sugar cane. Chamois thinters - bacafer bager, ANNIACEOUS GROUP STARCH O STARCH O STARCH O Latin Chillerogen. Company of the chill the chillerogen. Chillero

Comment Withler (1871) thus: Comment Carloby Frates. Supe Sugar - Co Hor Ob = Callor Water 6 Cia Hanny No Crystallia formentable Solution rotate blan planad Might high. Anuk Sugar - Co H1206, with glusses in fruits & Lictore Co 1412 OG - more from laction by high a Reality Cane Ingar C12 H 22 01 crystall, -not fermint plipt, miles Sugar of Milk C12 H22O11 - champion by year of the loss of the and 1 3 Lecture, 1868, 9 1867 Jale 1868, 21869, C6 H10 03 = C12 H20 100 C6 H10 03 (= C12 H20 10) C6 H10 05 (212, Water 10) Lellulose 122 Starch Elycoper mm C6 A10 05 26 H10 05 Dentrin

dry or nume wall, without diffusion ; next, variation of temperature where there is no change of pressure ; and third, variation where there is such change. With constant pressure, there is fall of tempe-rature on the side where G e denser gas is; and rise on the other side. Each current seems to have a heating effect where it enters the porous wall and a cooling one where it issues. With change of pressure, where this rises whiln the vessel, through problem and the temperature slightly increases NON-NUTRIN There are h all AMYLACEDU S FOOD. not multe le 10, In lighter gas, the temperature slightly increases, are in the foregoing list. They tends toy aniliking . . Where Harch is C12 the C10; grom C12 H 11 011; deatrice C12 H 12 012; burgar, Sizting, 4; cellulose C, 2 H, 0, or liquit, C, 2 H 8 08) CELLULOSE Cellulose and lignin are found in the solid AND LIGNIN. or woody parts of plants. Months is divided SCHLEROGEN into two substances, one of which is schlerogen (35 H24 020) This is found in rinds and cores of fruit and in bran It cannot apport life itself, but, with it, is a nourishing material; hence by throwing the rind of a fruit away something is lost. We will first treat of Sugar. We use SUGAR is lost. it almost as a luxury alone. It is eaten more than any other luxivey. So much is consumed that it is a source of considerable revenue to Some governments. We underrate its value. There TWO KINDS. are two kinds of sugar cane, and grafie GHANGES IN A Sugar, of glacose. There is much interest at-PROCESS or tached to the changes which taken place in germination. Seeds diving the process of germination intance 1 The starch stored up in the seed, is changed into sugar and afternards to an acid. If this process, which requires diastase, continues,

Wohler (1871) Thus: Der Naturforscher, February .-- We may first note, in this number, an account of some valuable researches by MM. Pettenkoler and Voit, as to the significance of the carbohydrates in 14 nutrition. The anthors conclude that carbohydrates, in the animal system, always pass entirely into carbonic acid and water, rater 6/ G2 How Pie and do not produce fat; but they save (ersparen) the fat produced from albumen, and this in proportion to the quantities of the albumen-fat and the carbohydrate. "" talk, to turber rotates plan, Jolana. Hugert maky. Truck Sugar - C6 H12 06, with glusses in fruits &. not crystallinable - fermentable - Sol. rot. pl. pol. to left. Lictore Co 1412 06 - more from lactin by histy with and Tuyar C12 H 22 Of crystall, -not ferment first nicht Sugar of Whilk C12 H22O11 - change by your ante Carlos of the Jecture und 1 1567 halso 1868, \$1869. C6 H10 05 = C12 H20 10 ellulow E12, Water 10 C& HIDON Starch Lycoper P6 1410 05 6 A10 05 um 26 H10 05 Destric

NON-NUTRIN There are some any laceous substances which are AMYLACOOLS not nutritions. All that have any claim to be so, are in the foregoing list. The composition of clarch is Cr2 the Cio; gum C12 H , OII; deatrice Ci2 H2 Ci2; Sugar, Sizting ; cellulose Ciz Ho is light, Ciz H & Og CELLULOSE Cellulose and lignin are found in the solid AND LIGNIN. or woody parts of plants. Woods is divided SCHLEROGEN into two substances, one of which is schlerogen (35 H24 020) This is found in rinds and cores of fruit and in bran, It cannot and for life itself, but, with it, is a nourishing naterial; hence SUGAR. is lost. We will first treat of sugar. We use it almost as a luxury alone. It is eaten more than any other luxury. So much is consumed Some that it is a source of considerable revenue to governments. We underrate its value. There TWO KINDS. are two kinds of sugar cane, and grafie CHANGES IN the sugar, or glaicose. There is much interest at. CHANCES IN A trached to the changes which taken place in the germination. Seeds during the process of germination, The starch stored up in the seed, is changed into sugar and afternards to an acid. If this process, which requires diastace, continues,

44. * Care sugar in thet, soughing, maple, date, maisie; hope a in Honey, many fruits; Poz a starch. I Total yield of Sugar Cam about 2000,000 tons year]-N.S. consum 500 000 tons sugar & 16000 ore miles and Kind of 3d lecture, 1870 5 MOLASSES. Containing pres acid, and present house or plantation other in punties. At the punest, it should be but moderately read - as it may dry and cause indigestion. In children, it often over- encourages The desire for food, 20 as to cause there act. B to excess. This interfores with the benefit other. (Aborns of Can Sprue of 14 pare - me derivable from its Caratre property (See Rollin Miced on Prom Sugar)

net batter (as it soes not usually in the turn plant of fring 45 we will get alcohol wath carbonic acid and fimally a cetic acid. These sendle an astaficall strand in Si The was originally an Eastern plant but CANE SUGAR. A gigenter A single cane yields from 8 to 22 per cent of sugar, but the waste is so great that WASTE. Only about 6 per cent gets to market. There is no doubt, unnecessary waste. By pres-MOLASSES. be less. Molasses ie the drainage after the sugar has been removed. BROWN & Brown sugar is the most impure. It contains carth, acid and accari which cause what is known as "grocers' itch." The amount of water it contains, is so great, that many think it is cheaper to use while, It il was how and be and SUGAR Beet sugar is used only in curefe, Millions of pounds of maple sugar are statt made in this country. It is ob-BEETSUGAR ? lained by tapping the bark during the I spring while the sap is going up.

+ Josephen is now largely pom in Reveral parts of this country; "Sorghum Nignin"-South africa; several varieties. Rate, "Otaberto com I Liberian care. I imported here as a substitute for or adultinter of superCare molasses. Anut-sugar , Wohler says, is to be dis -temperstud from hape sugar : the latter competallized, mit sugar art ; both formentable ; gr. sug. polains my light to night, for sugar to left.

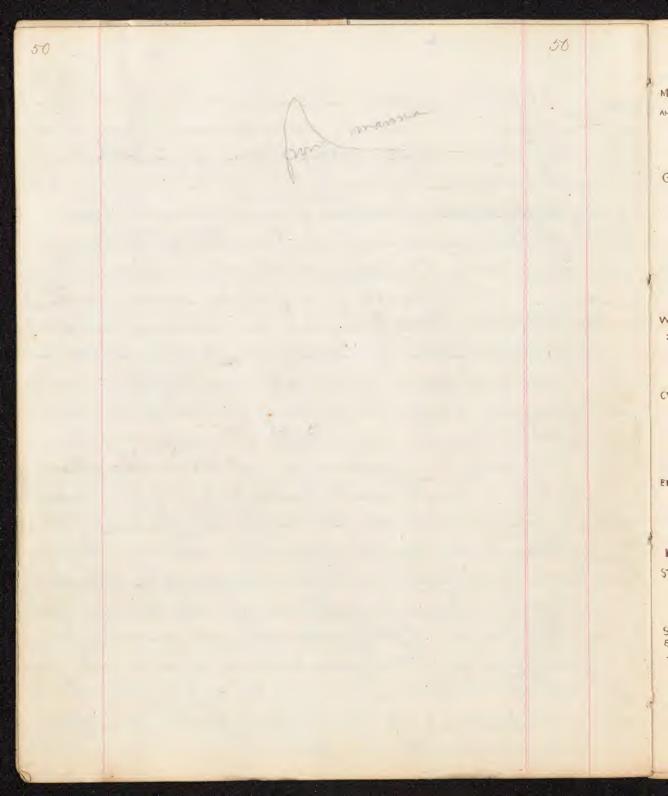
and the great excess of carbonic acid which me -11.5 water contains particularly enables it to act strongly The Sugar Maple is a beau on the metallic substances of the apparatus; a truth of which the reader will find no difficulty in convincing himself, by suffering a stream of sulphuret-On an average, ca sugar Maple su ted hydrogen gas to pass through the water." And in a note to this, " Some manufacturers have been hence induced to construct the apparatus for manufacturing soda water wholly either of earthenware or taste but cloye & of glass." The following reminds us of a recent report Sorghum or of the Massachusetts State Board of Health : --SORGHUM. "The leaves of the cherry laurel, Prunus lauroas good as cane; cerasus, a poisonous plant, have a nutty flavor resembling that of the kernels of peach stone or of it may yet be moison in enstands and other articles of cookery is poison is enstards and other articles of cookery is, There is & engar which is found INDIAN 2. in Indian corright mt profitable in amount. DATE M. The date-palm of the Cast, yields sugar, like that of the cane, really Grape sugar may be ster and raisins. GRAPE SUGAR. It is not as good as cane sugar, and is sometimes used to adulterate of is loss soluble & less, cuptallizable than cane Sugar; Itis made cheaply by the action of sulphus acid in It is found also in berries hunts (C but is not manufactured from them. Honey contains it, flavored by cer-HONEY. tain aromatic substances, according to the flowers from which the honey is gath-POISONOUS; ered. Certain honey as Indizonde TREBIZONDE HONEY. honey is poisonous. Kenophone mentions the poisoning of an army by honey. It few words may be said concerning

46 MAPLE-SUGAR. - According to the last census returns, Vermont is the banner State for maplesugar, reporting a yield of almost ten million pounds. The production of New York is somewhat larger, but nothing compared with the difference in area. The only other States which return more than one million pounds are Michigan four million, Ohio three Ka and one quarter million, Pennsylvania nearly three million, New Hampshire two and one quarter million, Indiana one and one half million, Massachulargely pour in setts a few pounds more than a million. The total production is forty million pounds. The total production of maple molasses is one and a half million country; Sorghum Nigrum gallons, of which Ohio returns nearly four hundred thousand gallons, Indiana nearly three hundred thousand, Kentucky one hundred and forty thousand, and Vermont only sixteen thousand gallons. - de 1857, Amphee, from Actualities when the courts in USS South africa; several varieties. Rate, "Otaberta com y Liberian care. Vimported here as a substitute for or adultintion of Lugar Cane molasses, Anut sugar, Withler says, is to be dis tuqueted from make sugar : the latter crystallized, mitsense not : both formentable ; gr. sug. polains my light to night, for sugar to left.

The Sugar maple & a beautiful tree, and a ready grower. - 5 On an average, cache tel yields a pound of sugar Maple sugar is very pleasant to the taste but cloye sooner than any other. Sorghum or Chinese sugar is not SORGHUM. as good as cane; It cloys soon. Perhaps it may yet to made equal to any other, There is a sugar which is found INDIAN 2. in Indian corregent not profitable in amount. DATE M. The date palm of the East, yields GRAPE SUGAR. It is not as good as cane sugar, and is Sometime used to adulterate that is less soluble & less cuptallizable than cane sugar; It is made cheaply by the action of sulphur ic acid into is found also in berries but but is not manufactured from them. Honey contains it, flavored by cer-HONEY. tain aromatic substances, according to, the flowers from which the honey is gath-POISONOUS; ered. Certain honey as Trebizonde TRE DIZONOE HONEY. the poisonous. Kenophon mentions the poisoning of an army by honey. A few words may be said concerning

of kinjedon \$50 more secently by Delle Domell Jouthis; Its origin is yet insettled - the many T G hold the view that it comes from the non-conversion of sugar into lactic acid by bealthy respiratory combination the airding Hord in the lungs. meat & bran cruckers (& cabbage) - 33 .

DIABETIC diabetic sugar. The passage of this su-gar in the wine, accompanied by waste WER discussion. The week as a sugar pro-ducing organ has examined by & a gav may be tested like other sugars. TESTSCOR GRAPESUGAR. there in number 1st. the action of sulphate of copper, and potassa, by which a yellowich red prepitate is obtained. This test is called Thomment, and the action of potaesa and heat, called moores. and. The fermentation test. Chicose or grape sugar is the only kind that will ferment. The diabetic patients, there SHOULDER BE GIVEN has been much argument among doctors PATIENTS? as to whether or not sugar should be given. Some suggest sugar as a cure for the disease. Otheys recommend yeast. The majority, Carfield among others, say that sugar should be avoided; that instead of it meat or food of Alats, kind should be used. +



MAINNITE There are other forms of sugar, as man-LICORICE mile a product of the ash, legorice, and lichenin; bisides muscleringar, Janmil onym. GLYCERIN. Sugerin is not a sugar; its chemical Repationare more like those of alcohol. It is very sweet, but it cannot be substituted for sugar, unders in the case of diabeties, who have an appetite for sugers, WHOLE OF The regard to the undice. Children SUGAR. So of sugar, there is much prejudice. Children to eat it although they CHILDREN. have a craving for it, which seems tobe something more than more laste. Sugar is easily dissolved and they beda billy that-Expect of the When taken excessively it causes Source kness, it makes acetic instead of lac-LEHMAN'S tic acid. Jehman says that the making STATEMENT. of lactic acid, is the first stepping the process of making fat, but in the It is very common to say that SUGARHAS It is very comments is a mistake. EFFECT on THE TEETH. sugar decays the teeth, This is a mistake. out of wa order, and a ceter acid is thrown into the mouth, Then perhaps the enamel

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······· · · · · · · 52 52 an ulcer of the stomach. End of 19th Lecture, 1872 and of 13th Lectine, 1871; -3ª on Alimentation. Recept. list of Amplaceous principles -& Sources of Cane & hape Lugars -Thew specimens of afferent starshis: on board, Magnif. views of st. corpuscles, for Parkes ? (Hassall).

acted on The that when. nothing more sugar, Cm FATINGOE the, SUGAR CANE cater and in the West Indian . have better teeth heaple the, Mikhim 20 an swere SUGAR-WATER rence OF THE FRENCH, wales formerly 0 ADULTERAL 1-dulle li 01 9 SUGAR. on atres ous grown Auna BROWN waler a. Jul acarus, ces of cane, D.C. monly adulteral WHITE. pecially when pulverized. Chalk, gifteen marble are used. Marble has the and. criptalline structure as same sifted sugar is less lighte to the than pulverized We can detect, by placing TEST sugar in water, when the marble &c will not dissolve,

ave chosen assigne the nadimies of the firm amount to \$2,300,000.

Frederick Myers, the accomplice of William Murray, who was convicted on Thursday last of the murder of Gothard Wahlin in November, was also convicted on Saturday of murder in the first degree.

In South Australia the results of the wheat harvest have been more satisfactory than was anticipated when the reaping commenced. It was estimated that the surplus for exporta-tion will exceed 250,000 tons.

A violent storm of hail and snow prevailed at all points on the fladson on Saturday night. The wind was from the northeast and blowed very hard. It adds much to the already large quantity of snow and ice on the ground, and increases the fears of damaging freshets.

During the past few days a rumor has been During the past tew days a runor has been in circulation throughout the Lehigh Valley that the miners in that region would resume work to day. It is impossible to trace it to any reliable source; although some of the col-lieries will probably start, thereby giving some hope for a general resumption.

Latest California mining stock quotations: Ophir, 96; Mexican, 26%; Gould & Curry, 18%; Best & Belcher, 50; Savage, 1274; Chollar, 59%; Hale & Noncross, 60; Crown Point 29; Yeilow Jacket, 76; Imperial, 75%; Empire, 5%; Ken-tuck, 14%; Alpha, 15%; Belcher 33; Confidence, 17%; Consolidated Yirginia, 425; Sierra Newada, 12%; Collifornia, 5%; Exchemer, 215; Over-1232; California, 55%; Exchequer, 215; Over-man, 51; Bullion, 37; Justice, 68; Union, 8%.

man, or; Builden, di; Sustee, si; Chion, sig. The Colorier-Journal reporter, who was sent to the locality of the troubles in Todd county, Ky, reports that four of the accused Kuklux are in jail, and will be brought up for trial to-day. The company of State militia has arrived and all is quiet. There is no apprehension of any attack upon the jail or an attempt at the rescue of the prisopers by their friends.

A telegram has been received at Lieutenant A telegram has been received and the Chicago, General Sheridan's headquarters, Chicago, reporting the surrender at Fort Sill of a por-tion of the Quohada band of Indians. This tribe is perfectly wild, and one of the most troublesome in the Southwest. The indications are that the whole tribe will come in.

Two freight trains on the Canadian Grand Trunk Ealiway collided on the Lachine Canal bank, Point St. Charles, Friday night, smashing both locomotives and some cattle cars, killing a number of cattle and seriously injur-ing one of the engineers. The accident was caused by the error of the telegraph operator. who has run away,

The Legislature of Delaware will adjourn in a few days. The measure attracting most in-terest is a bill to loan the credit of the State to the amount of \$300,000 to several proposed rail-roads in the central and lower sections of the State. They are designed to form part of a system centring at Lewes, there to connect with the Old Domanton line of steamers to New York. The fill passed the House of Re-presentatives on Wednesday by a vote of 11 to 10, and has been read twice in the Senate. Its The Legislature of Delaware will adjourn in passage in that body is considered impossible.

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we enumerate the different form of adul-teration, which the word in its widest sense. First. The foreign matter may be added

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simply to increase the weight or bulk of the article, and may be in itself wholly inert, as when sugar is wetted or mixed with sand. Here the buyer is simply cheated in practically the same way as when false weights are used.

Second. The substances may be added to improve the appearance, as when alum is added to bread to increase its whiteness, or when pickles are treated with a solution of

copper to develop a green color. Third, The adulteration may consist in the addition of some substance to increase, absolutely or apparently, the strength of mach the article, so that a weaker grade may pass for a stronger. This is a common form of adulteration in liquids, which are first dilated with water to increase their volume, and then the effect of this dilution counteracted by the addition of some substance which either increases the density or restores the taste.

Fourth. Sometimes there is a complete substitution of one article for another, as when diluted sulphuric acid is sold as vinegar.

Fifth. Occasionally the foreign matters are added without intention to deceive the buyer, but merely in deference to a prevailing custom or fashion. These cases are therefore not strictly adulteration, but since the substances added may be poisonous, the examination for them is too important to allow a mere technical distinction to interfere.

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siath. It will appear, however, that the form of adulteration which is at once most extensively practiced and most difficult of detection is that which consists in adding to an article of high grade and price substances of the same nature, but of inferior quality. Here the chemist is almost completely at loss, since the question of qual-ity is so often one decided by prejudice or fashion.

It is not to be understood that the above classification will include every instance of adulteration, or that all cases can be assigned to one or the other of the division; on the contrary, articles are often added which fulfil at the same time several dif-ferent purposes. Thus mineral blues or offerent that to the less for the purpose of green added to the teas for the purpose of "facing," as it is called, that is improving the color of the tea leaf, will, of course, in-erease also the weight of the article, " Magnif news of et. corpuscles, from Parkes ? (Hassall). voard

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53 A sacted on. The origin of the opinion is that when a tooth is already decayed, nothing is more likely to any pany it, than sugar. On the plantations, sugar cane is EATING OF cater, and in spite of its fibrous nature, the West Indian negroes who eat it, " have better teeth than the majority of the people of this country; Igmition it. yktim so to Can swerel, or sugar water is a SUGAR WATER French article. It is taken going to led OFTHE FRENCH. A certain lecturer in France sipped his BROWN water; a tortion of sugar are numer ces of cane; se. The while is more commonly adulterated than the brown, es-WHITE, pecially when pulverized. Chalk, gypsum lost and marble are used. Marble has the same cryptalline structure as sugar. Sifted sugar is less liable to be adulterated than pulverized We can detect, by placing the TEST sugar in water, when the martle &c will not diesolve.

needles 20 house Dove com Starches S Potato The service of the se Whiat anour find for the second A. Care Anow woot with twice its weight of concentr. hy drochlor and gues, pagne paste; potato-statch, a transparent jelly--like material. Boiling with SO3 brates, wolves from potate-stand a peculiar & rather disagranble ovor; none such from amon-root, Alcohol extracts from potato-stand an adrid oil; not from arrow work. This last, partly at least, explains the greater fitnes of arrownort for a delicate stomach.

1 % milk - in 55 "cruel to tell animb hed. STAR Bible - & Palcontology t, and ie more hard chitdren es, are CAL author _ 21/4 paid mill _ Month The loca/ veg, or animal? h, are Matter can, of stoy, I will, on veg. -ARROW ananta Huch - concerts anin ida. as huffles te, aluder omig R ilk &c. la site half ret fueld. ratis STAI CORPUS hich v-lousmor un so settles -CANA Duit stame Discan 20 -Those POTA of-are Autore on the way to dealt hey 14 1. Full hyer & mor exerce. mes a SAGe leve vice arke

× 54 arrow root starch granules -Cours. S 1/1400 incl long, average, Dagolfond liped - with concentric lives, - Ho Par. hilum (Dork spot) with travererse line, at one and, generally langer and; sometime radiations Potato - starch - grandes, and the ____AF De oustant shape - variable in size 15000 to hoo inder aut gin long - this is important Shiffine v test. elly-like Round, often diske tike - with or without hileun. stand Utarek" Ali Small - 12000 inch , rouded - Sestint helen, not fite ater utt concentre rings. He stand Oblong, round at one and, square at the other Ulilium circular when perfect, hit often is crocked star like, or cross -Turic as large as arrowroot is a peal sage, altered is appendue. Is

We will next take up the starches. STARCH. There are many varieties Potato, wheat, and POTATO WHEAT corn, starch, are the most common. The more GORN ARROW ROOT delicate, which are good for sickness, are SAGO CANNA arrowroot, sago, tapioca and canna. The microscope detects the differences as does the taste also Polato and wheat starch, are not good for the sick. Com starch is price times used as a dessect. Various "formas" Torinas ARROWROOS. Arrowroot is obtained from the mananta plant. The best comes from Bermuda. It is obtained from Georgia, Florida te, also. It is a thick, humpy, while pourder It is materiated and boiled with milk to to flavor it. To dissolve starch heat is STARCH required, to break the confuscles which CANNA. are in layers, onion like. Canna, or tousles-mois, has the fargest corpuscles. Those POTATO. of the potato vary those of arround, are 150 The long and Itte fan inch broad. They have a transverse section and sometimes a SAGO. star on them. The sago corpuscles are twice as large as those of arrowroot. The marks

Sil 56. 56 # Jague Many * Jague Many or Cycas seroluta -# beng inte Grades have pith - being autermidente T, egogens Ventogens. leteren С

on them a a way be unreament All a deeper layer. It is attached to the upper border of the patella, but assists, in conjunction with other fibres of the capsule, to form the so-called lateral corpus cl. ligaments of the joint. Taking these points into consideration, we find that -(a) The musculus Jago rectus and femoralis act upon the upper border of the patella: (b) the prin-SAGO, cipal tendinous bundles of the two vasti are attached to the lateral borders of the patella; (c) Close to the patella, on its outer side, pass to the tuberosity sago la of the tibia the tendons of the gluteus maximus and tensor fasciæ femoris, along with the lateral tendinous bundles of the vastus externus, previously blended with the fascia lata; whilst on the inner side passes the tendon of the PEARL SAGO Africa. The rinternus similarly bland rid rid ascia From a surgical point of year. In the form heart salt Dertow W good for we sickarhe med all mar manioc Lapioca is obtained from TAPIOCA. x fano Brazil and the West Indies. The is poisonous. The poison is driven ly heat and pressure. Japioca is most pleasant as desert or sick diet. Jath Starch, Canna is little used here, CANNA. The next of these power kest is gum; as gun trabic. It is of no value as food GUM. This was not always the opinion held. It was formerly given to the sick as a poort diel. When eater it passes unchanged Heller through the bowels. An apparently contradict-ARABS. ory circumstance is that Araby make long journeys with gum as their food. This can hardly be accounted for unless they take that the gum, being fresh from Klensk coffee or the we have in the spend from to than what bree more noundant

The Saccharifying Influence of Infants' Saliva.

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It has been hitherto generally believed that the secretion of the mouth of sucking infants does not possess the power of converting starch into sugar, as does that of older persons. SCHIFFER (Reichert and Du Bois-Reymond's Archiv, 1873) gives certain observations which show this to be incorfect. He placed little bags of tulle containing starch in the mouths of new-born infants, and of sucklings at various ages. In every case he found that on applying Trömmer's test to the contents the copper was reduced, showing the presence of sugar.—Edin. Med. and Surg. Journ., Dec. 1873.

leter exogens Vintogens -

57 on them are circulari.) We cannot see the corpuscles in the pearl sago which we get. SAGO. Sago is oftained from the pith of the sago touler athill from at Malaga and PEARL SAGO Africa. The tree is cut in the seventh Jear. In the form of pearl sago it. is good for michand show manioe Marine Tapioca is obtained from the Jatopha of Brazil and the West Indies. The plant TAPIOCA. is poisonous. The poison is driven off ly heat and pressure. Japioca is most fileasant de dessert or sick diet. Ganna ie little used here alle Start, CANNA. The next of these power exert is gum; as gum trabic. It is of no value as food This was not always the opinion held. GUM. It was formerly given to the sick as a Willer party diel. When eaten it passes unchanged ARABS. ory circumstance is that Arabs make long journeys with gum as their food. This can alles the is the than what we have in the show the

158 100 the iner the drafter give buck the most whether 1000 the photophates nor pipe d for N. - Guest alme promples : Maduryly Sol - Potras - P The and all porters to for for infants " because holder indension in any the difference of the and the pression of the pression of the formation of the format Total and the and the server of the server the server of t Wholesome to eat a little raw forg, ford every few days; Colony, lettuce, radishes, cole slaw, vc, -